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What's All This Prank Stuff, Anyhow?



"I am ready to work, I am ready for this job and I am ready for this challenge."

Telecommunications Cabling Championships at SkillsUSA Sponsored by ETA



International recently sponsored Telecommunications Cabling Championships for the 16th year in a row at the 54th annual SkillsUSA National Leadership and Skills Conference in Louisville, KY. The competitions showcase the best career and technical education students in the nation with this year's theme: Champions at Work - Job-Ready Day One. ETA International continues to sponsor the National Telecommunications Cabling Championship at SkillsUSA to reward students for excellence, to involve industry in directly evaluating student performance, and to keep training relevant to employers' needs. The Telcom Cabling Championship is unique to SkillsUSA and utilizes many of the competencies and hands-

The Telcom Cabling contestants are high school and postsecondary students interested in voice and data network cabling and installation who excelled at their local and state competitions. ETA applauds the six contestants who took home gold, silver and bronze medals!

on skills that comprise ETA's Data Cabling Installer (DCI) and

Customer Service Specialist (CSS) certifications.

Secondary: Gold - Donovan Tames, Blackstone Valley RVTHS, Upton MA; Silver - Mason Brown, Paso Robles High School, Paso Robles CA; Bronze - Hunter Casteel, Dennis Technical Education Center, Boise ID.

Post-Secondary: Gold - Jacob McGonigle, Tennessee College of Applied Tech-Crossville, Crossville TN; Silver - Gavin Ginn, North Central Kansas Tech College, Beloit KS; Bronze -

Steven Casimir, Orange Technical College - Mid-Florida Campus, Orlando FL.

Contestants demonstrate skills in fiber cable termination, proper connectorization, pulling and mounting cable, patch panel installation and termination,

2018 Telcom Champions (from left): Steven Casimir, Hunter Casteel, Jacob McGonigle, Donovan Tames, Gavin Ginn, and Mason Brown.



installing jacks, cable testing and troubleshooting, and providing customer service. Both copper and optics cable are represented and the contest stresses safety in all activities. Industry indicates 80 percent of the problems in computer networks, security systems installations and others are caused by cabling connector issues and not computers, servers, switches, etc. This competition tests to worldwide industry standards related to cabling for data and voice connections, physical and logical networks and signal transmission.

The contests are planned by the Skills Technical Committee and designed to test the aptitude needed for successful entry-level performance in the field. The National Education Team and the Technical Team from industry developed the Telcom Cabling Championship's content, built and set up the rotation areas as well as conducted both the orientation and competition. All contests are run with the help of industry, trade associations, and labor organizations, while test competencies are set by industry.

National technical and educational committees for Telecommunications Cabling Championship: Co-Technical Chairs Teresa Maher, CSS, ETA International (IN) and Bill Phelps, Dymo, (WA); Dede Starnes, Corning Optical Communications (NC); Richard Darnell, retired (UT); and Brandon Crump and Jeff Swaringen, both with Stanly Community College (NC).ETA gives special thanks to the Telecommunications Cabling Championship judges: Jim Steele, CETma, Amatrol (IN); Wayne Rager, Bland Technologies (KY); Bryan Little and Mark Damiter, both with Corning Optical Communications (NC); Richard Booth, Empire High School (AZ); and Paul Neukam, FOSP, SiteWise Systems (IN).

Including the judges, supporters and contributors to the Telcom Cabling Championship come from departments of public instruction, community colleges, proprietary training groups, and companies such as ETA, Dymo, Corning Optical Communications, CWA, Panduit, Fluke Networks, Cisco, Greenlee Tools, IDEAL Tools, International Wireless Communications Expo (IWCE), Kobalt Tools, Light Brigade, Keysight Technologies, Southwire, Milwaukee Tools, Wiley Publishing, Bland Technologies, Klein Tools, and BISCI. A special thank you goes to Joe Maher, CSM, DVE, for doing all the heavy lifting.//



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High Tech News is published by Electronics Technicians Association International, Inc. 5 Depot Street, Greencastle IN 46135

Phone: (800) 288-3824 / (765) 653-8262 Fax: (765) 653-4287 Web Site: www.eta-i.org E-Mail: eta@ Publication # ISSN 1092-9592

The views expressed in this publication are those of the author(s) and do not necessarily reflect the views of ETA International

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The SkillsUSA Championships are competitive events showcasing the best career and technical education students in the nation. Contests begin locally and continue through the state and national levels. The philosophy of the Championships is to reward students for excellence, to involve industry in directly evaluating student performance and to keep training relevant to employers' needs. ETA International is a proud sponsor of the National Telecommunications Cabling Championship for the 16th year in a row at SkillsUSA National Leadership and Skills Conference!

ETA BOARD AND AWARD NOMINATIONS

ETA is now accepting nominations for the ETA Officers 2019-20 two-year terms and Annual Awards for this past year. Please submit your nominations by October 1, 2018. The new ETA officers will be inducted and award winners recognized during ETA's Education Forum co-located with IWCE Expo, March 4-8, 2019 in Las Vegas.

TECHNICIANS IN POLLUTION CONTROL

Pollution control of industrial gases and waste water is very important to environmental protection. Pollution Control equipment has advanced electronic systems that call for expert technicians in this field. Electronics technicians who want to specialize in pollution control for industry should have a solid background in industrial control circuits and systems.

ETA CERTIFICATION MAINTENANCE FAQS

Certification Maintenance is ETA's way of complying with ISO's 17024 recertification standards and with ETA's accreditation through the International Certification Accreditation Council (ICAC). ETA answers some of the most commonly asked questions about certification maintenance, such as: Do different certifications have different requirements?, What is Continuing Education and does my onthe-job experience qualify?, I have multiple certifications. Do I need to submit multiple payments?, and more.

22 WHAT'S ALL THIS PRANK STUFF, ANYHOW?

Who says engineers don't have a sense of humor? Remember the WOM, inspired partly by the Umac 606 phantasatron? The DEAD diode? The "SCROM" scratchable read-only memory? The list goes on. Many of the early analog electronic greats were inveterate pranksters. Sometimes the prank made the papers.





10 NEW ETA CERTIFIED TECHNICIANS

ON THE COVER: ETA applauds the six contestants who took home gold, silver and bronze medals from the SkillsUSA Telecommunications Cabling Championship! Telcom Champions (from left): Steven Casimir, Gavin Ginn, Donovan Tames, Hunter Casteel, Mason Brown, and Jacob McGonigle.

Photo credit - Dede Starnes, Telcom contest technical committee.



National Association of Tower Erectors

www.naterome.com

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Light Brigade Announces New Training Course for Field Testing



Light Brigade, a leader in fiber optics training for over 30 years, recently introduced a new hands-on training course for providing a deeper understanding of fiber optic testing and troubleshooting best practices. The new OTDR and Testing Deep Dive Workshop is a

2-day intensive course that that will provide students with the knowledge and skills needed to achieve testing expertise in the field.

"We developed this course in response to student requests to spend more time on OTDR operation and field troubleshooting" explained Lee Kellett, general manager of Light Brigade. "We're excited to help installers and technicians gain the critical testing skills they need to be more effective in the field."

Basic testing and fiber optic knowledge or previous training is a prerequisite for those taking this more advanced course. Light Brigade provides 'vendor agnostic' training, so various manufacturers' equipment is used in this class, and students are encouraged to bring their own equipment.

Classes are coming up in Atlanta, Denver and Seattle. For more information about this course and other Light Brigade training, visit www.lightbrigade.com and www.learn.lightbrigade.com.

Present Your Communications Industry Insights at Education Forum!



ETA is seeking electronics and communications professionals with new ideas and practical solutions to the challenges facing today's communications industry to submit

a proposal for session presentation at Education Forum 2019 (EF19). Co-locating with the International Wireless Communications Expo (IWCE) gives EF19 attendees the opportunity to network with over 7,000 industry professionals and more than 400 exhibitors in the communications technology industry.

Current topics of interest for the EF19@IWCE audience include: Multimedia Voice over IP, Satellite Systems Installation, RADAR, Small Cells and DAS, Land Mobile Radio, Digital Mobile Radio, Passive Intermodulation, RF Interference Mitigation, Telecommunications, Towers & Wireless Sites, Next-Generation Networks, Public Safety Topics, Wireless & more, including: 5G; Cybersecurity; Smart Grid, Smart Cities and IoT; Microwave, mmWave, LiFi, LIDAR, Unmanned Aerial Vehicles, Basic Electronics, and more.

ETA International is looking for dynamic speakers with great stories and insights about what's new and relevant in the world of communications technology, especially those which provide case studies and innovative solutions for communications challenges.

EF19@IWCE has opportunities for people passionate about wireless communications and the electronics industry at the Las Vegas Convention Center, occurring March 4-8, 2019 to be a guest speaker and present ideas that will promote the development of knowledgeable and skilled communications professionals. Present to a diverse group of attentive industry professionals, including government/military; public safety (law enforcement, fire service, emergency medical & 911); utility; transportation and business enterprise.

Benefits of presenting a session at EF19@IWCE include free admission to the exhibit hall with access to all short courses, professional exposure speaking before hundreds of industry peers, and extensive publicity. The EF19@IWCE conference promotes each presentation to its attendees through a vast promotional campaign, an opportunity to contribute to ETA's bi-monthly publication High Tech News, and a great chance to network with peers and to view the latest products.

Industry gurus with timely and relevant ideas wanting to share future-thinking insights, research, trends and educational topics that are driving the communications technology industry are encouraged to submit session topic proposals. The deadline to submit is August 31, 2018. Sessions will be presented Wednesday & Thursday, March 6 & 7, 2019. To review the guidelines and submit your proposal(s), visit https://www.eta-i.org/education_ forum_call_for_presentations_form.html. Contact Michele Lawson, CSS, at ETA for more information at 800-288-3824 or mlawson@eta-i.org. //



Fiber Terminology and Geometries

e use terms to designate the size of fibers all the time without thought to how these terms and definitions evolved. In this column I'll address many of these and how we use these today.

Let's start with step-index (SI) fibers which have a glass core used to transmit the optical signal and have a higher index of refraction than the surrounding glass cladding with its lower index of refraction. Step-index fibers are easy to manufacture and are available in two basic types; single-mode (SI-SMF) and multimode (SI-MMF). Dr. Charles Kao laid out the optical requirements that a practical fiber must meet in order to be useful in communications. His paper titled "Dielectric-Fibre Surface Waveguides for Optical Frequencies" published by the IEE (pre IEEE) in 1966 would win him the Nobel Physics Prize in 2009. His research and work were based on the development of a single-mode fiber (SMF) using the helium neon laser which lased at 632.8 nm. This wavelength would require that the core be approximately 4 microns in diameter He also identified several goals for optical fibers including the attenuation benchmark of less than 20 dB/km. This was extreme when considering that optical fiber attenuation at the time was 1,000 dB/km. In addition, he also identified the term and spelling of single-mode with the hyphen in his paper.



Charles Kao interview with then-President of Light Brigade Larry Johnson.

It was thought that the solution might lie in a single-mode waveguide for light. But this led to a number of serious practical problems. First, a single-mode fiber core would have to be extremely small to transmit only a single-mode however, the cladding could be as thick as needed to make for easy handling while still maintaining flexibility. Donald Keck, who was part of the fiber development team with Robert Mauer and Peter Schultz at Corning Glass, produced the first optical fiber to meet Kao's attenuation goal in 1970.

The second type of step-index fiber is the multimode fiber (MMF) which was available at the time and had been used since the 1950s for use in endoscopes for medical applications. This fiber could have a core up to 1,000 microns and was very effective at coupling light from a laser as well. Large core fibers are great for illumination but poor for bandwidth as the larger the core size the lower the bandwidth is due to modal dispersion. Modal dispersion occurs when multiple modes (paths of light) are transmitted through a fiber with each mode taking longer paths therefore stretching the transmitted pulse. The detriment of using a larger core is that hundreds to thousands of modes can be transmitted. The large core fibers of the time were unsuitable for communication purposes over even short distances due to their large optical dispersion.

Thankfully the Japanese tackled the problem of getting light into a fiber. The concern was that the extreme small core size of single-mode fibers made it impossible for the average technician to work with fibers. In 1968, Shojiro Kawakami along with the optical research team at Tohoku University developed the graded-index fiber where refractive index gently tapers from high to low as you go from the center of the core to the cladding. Because light travels faster in lower index materials, the light in the high index axial center of the fiber's core will lag behind the light traveling near the cladding, where the refractive index is lower. This offsets the delay suffered by the higher order modes from having to travel a greater distance. Although complete

compensation was impossible, careful tailoring of the refractive index gradient allowed pulse spreading to be reduced by a factor of 1000.



The optics staff at Kohoku University who invented Graded-Index Multimode Fibers.

In the 1970s due to the short life expectancy of the laser the use of the Light Emitting Diode (LED) coupled to the Graded Index-multimode fiber (GI-MMF) would be the dominant fiber type installed until the 1980s when single-mode fiber could be manufactured and terminated. As the newer 1300 nm lasers had a longer life this also required that the core size increase to nine microns which was a huge mechanical benefit for coupling laser diodes and for splicing and terminations. Today GI-MMF fibers are used internationally in lower speed and shorter distances and are standardized by the IEC as OM 1, OM 2, OM 3, OM 4 & OM 5 fibers. Of these OM 3, OM 4 and OM 5 have been optimized for use with laser diodes.

What about fiber geometries?

During the early lab years of fiber optics, fiber geometries were not as important as lowering the fiber's attenuation. As Donald Keck told me in an interview, "It must have been the '73-74 timeframe where fiber diameter became an issue. By that time, (John MacChesney's) MCVD work had gone on at AT&T. And for some reason or other, AT&T hit on 55/110 as the diameter (of an MMF). All along, Corning had been drawing their fibers

with a O.D. of 125 microns. In Donald Keck's words "You might ask why? We weren't using the metric system. You'd sit there with a micrometer, and you'd measure the diameter of the fibers that came off the draw. I'd draw the fiber and we'd sit down at the micrometer and measure the diameter of the fiber. Well, if we drew it at two mils-roughly 50 microns-the fiber would wind up, because of the high humidity, just wrapping itself on the drawing tractors of the drawing rig that were pulling it out of the furnace. We were wrapping the fiber on a big cardboard drum, probably 15-inches in diameter. And we found if we wrapped it around that drum, we could draw the fiber initially, even if it was ten mils or roughly 250 microns in diameter. So, ten mils, two mils—well, five is about in the middle. Five mils converted to metric system is 125 microns. So, we standardized on 125 microns at Corning. That's how that diameter came about. Eventually, 125 became the industry standard, as it is today". The 62.5 micron core measurement came about as it was half of the 125 micron cladding diameter.

- 2 Mils (millimeter) or approximately 50 Microns 1/1000th of an inch.

62.5 Microns - 2.5 Mils 125 Microns - 5 Mils - 10 Mils 250 Microns

Because with SMF the core size is dependent upon the wavelength a 1300/1310 nm laser would require a nine-micron core which became the standard for "standard" single-mode fibers.

With these terms and geometries established, the fiber optic revolution would transition from the lab to the inside and outside plants. Terminating connectors and splicing fibers in the OSP could now be standardized and up until the late 1980s a myriad of new proprietary connector types evolved. Which is another

The interviews with John MacChesney, Donald Keck and Charles Kao occurred between 2001 and the present.

If you have questions, comments or experiences you would like to share I would love to hear from you. WWW.Fiberstory.com or E-mail Fiberstory@gmail.com //

ABOUT THE AUTHOR Larry Johnson started his career in fiber optics in 1977, coinciding with North America's first fiber optic installation. As a Fiber Optic Specialist for Tektronix, he was part of the team that developed the first field OTDR. In 1986, he founded the Light Brigade to provide worldwide non-vendor specific training. He has researched and written 20 fiber optic courses and contributed to multiple ETA International fiber optic certification competencies and exams, including the Fiber Optic Installer (FOI), which he led as Charter Chairman for the Fiber Optics Committee in 1997. Johnson continues to serve on the ETA Fiber Optics Committee and works closely with the Fiber Broadband Association and the Utility Telecom Council's Technology Committees. He is also a guest columnist for ISE magazine writing a monthly column on fiber optics.

FiberStory was founded by Johnson in 2008 to archive the history of fiber optics, including interviews with many of fibers inventors, such as Nobel Prize winner Charles Kao. Leaving Light Brigade in March 2018, he expanded the FiberStory mission to writing articles, coordinating special events, speaking at conferences, writing industry certifications and representing the fiber industry for various organizations.

To share ideas, questions or comments, please email: Fiberstory@gmail.com or visit: www.Fiber-Story.com.

ETA® International Nominations

Attention ETA Members, we are now accepting nominations for the following:



2018 Technician of the Year 2018 Educator of the Year 2019-20 ETA Officers

Officers and Award Winners will be announced in the January/February issue of the High Tech News. New ETA Board of Directors will be inducted at the ETA Education Forum/IWCE Expo, March 4-8, 2019 in Las Vegas, Nevada.

The completed form can be mailed or faxed to ETA Headquarters or submitted electronically at: https://www.surveymonkey.com/r/nominations19-20

Please send, email or fax form to:

ETA International 5 Depot Street Greencastle, IN 46135 Phone: 800.288.3824 Fax: 765.653.4287

eta@eta-i.org

Submission Deadline: October 1, 2018

Nominations For 2018 ETA TECHNICIAN and EDUCATOR of the YEAR

IECHNICIAN of the Year Nominee:						
Employer:						
Contact Info(phone/email):						
EDUCATOR of the Year Nominee:						
School:						
Contact Info(phone/email):						
Reasons you feel this nominee should be considered for ETA's highest award must be attached or emailed to: eta@eta-i.org.						
Nominations for the 2019-20 ETA Board						
Chairman John Baldwin, CETsr (Automatic	vally moves up from the Vice Chairman position)					
Vice Chairman	Shop Owner Div S/T					
Secretary	Comm Div Chair					
Treasurer	Comm Div S/T					
Educ Div Chair	Dir Chap Relations					
Educ Div S/T	Cabling Chair					
Cert Tech Div Chair	Cabling Div S/T					
Cert Tech Div S/T	Renewable Energy Chair					
Shop Owner Div Chair	International Division Chair					
*Board of Masters Chair ————————————————————————————————————						
Submitted By						
Your Name:	Your E-Mail:					
Your Phone:						
Signature:						

Technicians in Pollution Control

by Glen Spielbauer

Pollution control of industrial gases and waste water is very important to environmental protection. Pollution Control equipment has advanced electronic systems that call for expert technicians in this field.

The following descriptions are from several online tutorial websites on the subject, including Wikipedia:

- Scrubber systems are a group of air pollution control devices that remove particulates and gases from industrial exhaust that are harmful to the environment.
- A wet scrubber is used for cleaning air, fuel, gas or other gases of various pollutants and dust particles by contact of target material with a scrubbing solution, which may simply be water (for dust) or solutions of reagents that specifically target certain
- They can remove gases like hydrochloric acid or ammonia.
- Dry scrubbing does not saturate the flue gas stream with moisture.
- Therefore, dry scrubbers generally do not have stack steam plume or wastewater disposal requirements. This method is used to remove acid gases primarily from combustion sources or to remove odor and corrosive gases from wastewater in treatment plants. Activated alumina with specific added materials is used to remove gases such as hydrogen sulfide, which has the wellknown "rotten egg" smell.
- Adsorber materials (with the letter d), such as activated carbon, can remove chemicals from industrial exhaust gas. Adsorption is when a material to be removed adheres or sticks only to the surface of another material. The adsorber material has to be replaced after the surface is complete and cannot take on more undesired material.
- An electrostatic precipitator (ESP) is sometimes used. It removes fine dust and smoke particles from a flowing gas with an electrostatic charge with only a little impeding of the gas flow.
- Thermal oxidizers are also used to destroy hazardous air pollutants and volatile organic compounds from industrial air streams with high temperature combustion. Pollutants are chemically oxidized to form water and carbon dioxide. The temperature is set more than 650 °C (1,202 °F). If a catalyst is used, the temperature range may be lower to save on energy cost.

• Pollution control equipment can come with a color touch screen for human operator settings, programmable logic controller (PLC) control, variable frequency drive (VFD) for motor control, Ethernet communication, and File Transfer Protocol (FTP) to a remote computer.

Electronics — Key to Operation

Advanced electronics is the key to the proper operation of all types of pollution control equipment. To control the temperature, gas or water flow, and sequence timing, there are pumps, valves, motors, and electronic sensors - all driven and monitored with PLC or computer control with sequence software. Also included are variable frequency drive (VFD) modules for intelligent motor speed and timing control.

There are many two-year community and state technical colleges with associate degrees and certificate programs in environmental and pollution control technologies. While some people from these programs work for industry, the topics generally cover monitoring air or water pollutants with hand-held or stationary equipment, rather than "in-line" automatic control in industrial plants. Most people from these programs are in consulting firms or government agencies.

 $Electronics \, technicians \, who \, want \, to \, specialize \, in \, pollution \, control \,$ for industry should have a solid background in industrial control circuits and systems. The electronics for process monitoring in industrial manufacturing and processes (such as petroleum refining) are very similar to the electronics in pollution control.

Taking a few courses or completing a certification in environmental science or pollution control technology would help the industrial electronics technician to apply electronics knowledge to pollution control equipment.

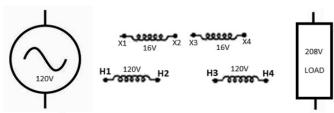
As pollution monitoring and control becomes as high-tech and automated as industrial processes, this is an important career field for electronics technicians.

https://www.pollutionsystems.com/wet-scrubbers.html http://www.envsrv.com/controls.htm https://www.pollutionequipmentnews.com/

BUCK & BOOST

Puzzle answer on page 19

Wire the circuit so that the 120V source can supply 208V to the load



ETA CERTIFIED TECHNICIANS The following is a list of professionals who have earned new certifications between June 1 and July 31, 2018 under one or more of ETA International's 80+ certification programs. Names of these highly qualified technicians have earned ETA's formal endorsement and approval.

CERT. #	NAME	SCHOOL	PROCTOR	LOCATION	CERT. #	NAME	SCHOOL	PROCTOR	LOCATION
A DUNIO I					AST209067	Ricardo Arbis	Hunter Business School	Ronald P Milione	Huntington Station NY
ARING IT	nstaller (AFI)				AST209079	Trevor Asher	Indian Hills Community College	James J Goudy	Ottumwa IA
AFI210291	Paul Carne	AVoptics Ltd	Geoff Proudley	Yeovil Somerset	AST210050	Mitchell Atkins	Pittsburgh Technical Institute	James M Mueller	Oakdale PA
AFI210292	Graham Embleton	AVoptics Ltd	Geoff Proudley	Yeovil Somerset	AST209362	Micheal Backus	Minot Education Center	Justin N Gillespie	Minot AFB ND
AFI210290	Paul Greenway	AVoptics Ltd	Geoff Proudley	Yeovil Somerset	AST209175	Griffin Balan	Maplewood Career Center	Ted J Karam	Ravenna OH
AFI210293	Neil Kippax	AVoptics Ltd	Geoff Proudley	Yeovil Somerset	AST210123	Marcus Banoub	Nida Corp	Kevin Gulliver	Louisville KY
Avionico	/ A\/A\)				AST209464	Sam Barber	ETA International	Lawrence W Stark	Berkeley MO
Avionics					AST210172	Christopher Barclay	Upgrade	ETA International	Belleview FL
AVN209010	Edward Sartin	F Co 1-160th Soar	Mickael Cruz	Ft Campbell KY	AST210272	Stephan Berry	SCI Laurel Highlands	Harry J Hoffman	Somerset PA
Accoriat	o Cortified Ele	ctronics Specialist (OECa)		AST209749	Sheldon Bingham	Upgrade	ETA International	Greencastle IN
		the second secon			AST209606	Evan Blatus	Greater Lowell Technical HS	Robert L Rondeau	Tyngsboro MA
ASTc209674	Stephen McConnell	ETA International	Jose N Talens	Edmonton AB	AST210163	Jamal Bouajjaj	Nida Corp	Kevin Gulliver	Louisville KY
ASTc209672	Brian Noble	ETA International	Jose N Talens	Edmonton AB	AST210138	Benjamin Bowman	Nida Corp	Kevin Gulliver	Louisville KY
ASTc209675	Alex Phiasackhoua	ETA International	Jose N Talens	Edmonton AB	AST210104	Spencer Brocksmith	Nida Corp	Kevin Gulliver	Louisville KY
Cartified	Flactronics Ta	echnician (CET)			AST209071	Travis Bruno-Erck	Indian Hills Community College	James J Goudy	Ottumwa IA
IND209971		Veterans Assembled electronics	Inha W Varran	Commission MA	AST208953 AST209035	Joshua Burgher Kevin Cardozo	Troy Public Library George T Baker Aviation Tech Coll	Christine Filippelli Howard Carter Jr	Troy NY
IND209971 IND210309	Robert Araujo	Veterans Assembled electronics	John W Young Francisco A Sablan	Framingham MA Belleview FL	AST209035 AST209488	Jose Cisneros	Centinela SP		Miami FL
CST209234	Christopher Barclay Michael Bath	Rollover	ETA International	Greencastle IN	AST210240	Daniel Clark	Upgrade	Alejandro Diaz ETA International	Imperial CA Greencastle IN
IND209889	Sheldon Bingham	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL	AST210240 AST209293	Ray Colon	Upgrade	ETA International	Greencastle IN
IND203065	Albert Cardona	Veterans Assembled electronics	John W Young	Framingham MA	AST210157	Samuel Costenbader	Nida Corp	Kevin Gulliver	Louisville KY
ESNT209579	Leng Chea	Advanced Technology Center	Robert C Stover	Virginia Beach VA	AST209467	Timothy Damiano	YTI Career Institute	Walt Bilous	York PA
IND210241	Daniel Clark	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	AST209466	Kyristen Daniels	YTI Career Institute	Walt Bilous	York PA
IND209751	Ray Colon	Veterans Assembled electronics	Francisco A Sablan	Belleview FL	AST209658	Scott Davis	ITI Technical College	Allen Spiewak	Baton Rouge LA
IND209677	Aida DeJesus	Veterans Assembled electronics	Clyde J Dolly	6/25/18	AST209480	Aida DeJesus	Upgrade	ETA International	Greencastle IN
AVN209420	Dennis Donovan	373 Training Squadron	Richard W Authement	Little Rock AFB	AST209073	Reece Denniston	Indian Hills Community College	James J Goudy	Outtumwa IA
IND209197	Lorenzo Hanna	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	AST209418	Donald Dignam	Motorola Solutions	Wesley A Pellum	Gilbert AZ
IND209351	Wayne Heckman	Veterans Assembled electronics	John W Young	Framingham MA	AST209419	Dennis Donovan	373 Training Squadron	Richard W Authement	Little Rock AFB
NST210031	Darrell Hornsby	Rollover	ETA International	Greencastle IN	AST209474	Darrius Dowling	YTI Career Institute	Walt Bilous	Glen Rock PA
IND209890	William Hose	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	AST209052	Ryan Escate-Correa	Franklin Co Career & Tech Center	Shawn Eckenrode	Harrisburg PA
IND210347	Alshun Huston	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	AST209471	Erin Eshleman	YTI Career Institute	Walt Bilous	York PA
NST209139	Mohammad Karim	Huntington Business School	Ronald P Milione	Huntington Station NY	AST210121	Joseph Ferguson	Nida Corp	Kevin Gulliver	Louisville KY
WNT209009	Mohammad Karim	Huntington Business School	Ronald P Milione	Huntington Station NY	AST209187	Robert Fowler	Maplewood Career Center	Ted J Karam	Ravenna OH
T1LV209503	Mohammad Karim	Motorola Solutions	Ronnie A Abdool	Long Island City NY	AST210231	Ronald Giffin	Greater Altoona Career & Tech Ctr	Scott Dalby	Altoona PA
IND210316	Keith Laird	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	AST209183	Zachery Grant	Maple Career Center	Ted J Karam	Ravenna OH
IND209140	Ronald Marshall	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	AST209054	Lorenzo Hanna	Upgrade	ETA International	Greencastle IN
IND209483	Evans Martin	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	AST209077	Billy Haynes	Indian Hills Community College	James J Goudy	Ottumwa IA
T1LV210503	Tim Mastrogiannakos	Motorola Solutions	Ronnie A Abdool	Long Island City NY	AST209138	Daniel Headlee	University TN Chattanooga	Tonya Botts	Chattanooga TN
IND209144	Jimmy McCracken	Veterans Assembled electronics	Harry L Adams	Concord NC	AST209120	Wayne Heckman	Upgrade	ETA International	Greencastle IN
IND209302	Rose Parker	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	AST209169	Erik Heidinger	Maplewood Career Center	Ted J Karam	Ravenna OH
IND210168	Michael Payne	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	AST209469	Zackary Hoerner	YTI Career Institute	Walt Bilous	York PA
IND209781	Jean Caleb Phanord	Veterans Assembled electronics	John W Young	Framingham MA	AST210295	Alshun Huston	Upgrade	ETA International	Greencastle IN
IND210311	Jonathan Ramirez	Veterans Assembled electronics	Francisco A Sablan	Belleview FL	AST208952	Christopher Irvin	Troy Public Library	Christine Filippelli	Troy NY
IND210315	M Ruiz-Aponte	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	AST209476	Marcelo Jang	OEMTD	Robert E Evans	Ft Gordon GA
RAD209864	Stephen Sikorski	Rollover	ETA International	Greencastle IN	AST210322	Reginald Jennings	Associated Technical College	Arnulfo C Runas	Long Beach CA
DAS210056	Michael Smith	Motorola Solutions	Ronnie A Abdool	Long Island City NY	AST210160	Jordan Johnson	Nida Corp	Kevin Gulliver	Louisville KY
IND209885	Bradley Sweeney	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	AST210151	Yousef Khalil	Nida Corp	Kevin Gulliver	Louisville KY
AVN209422	Chhaya Ung	373 Training Squadron	Richard W Authement II	Little Rock AFB	AST209310	Lensey King	Center Point High School	Roderic P Taylor	Center Point AL
DAS210508	Michael Van Winkle	Upgrade	ETA International	Greencastle IN	AST210106	Ryan Knepel	Nida Corp	Kevin Gulliver	Louisville KY
					AST210303	Justin Koch	University of Arkansas	John Martini	Ft Smith AR
B.ff ava	.1 01	er at Till a salara	radional Majori	and all area	AST209347	Hayden Kudela	Minot Education Center	Justin N Gillespie	Minot AFB ND
IVICIS	ster Cert	ified Electro	nics leci	nnician	AST209240	Alex Kulac	Minot Education Center	Justin Gillespie	Minot AFB ND
					AST209764	Keith Laird	Veterans Assembled electronics	Robert C Berlin	Orlando FL
The following	technicians completed	their Master level certification. In	addition to the Associate I	evel certification,	AST209185	Gaige Ludwig	Maplewood Career Center	Ted J Karam	Ravenna OH
		er ETA certifications, with no more			AST209081	Austin Major	Indian Hills Community College	James J Goudy	Ottuma IA
	rder to qualify. Congratı				AST209608	Cole Mandeville	Greater Lowell Technical HS	Robert L Rondeau	Tyngsboro MA
Cert Number		Name	Location		AST210113	Lawbert Mankle	Nida Corp	Kevin Gulliver	Louisville KY
US210032	2	Darrell Hornsby	Phoenix	AZ	AST210030	John Marchand	B & C Communications	Cynda C Simmons	Akron OH
US209504	1	Mohammad Karim	Bronx N	(AST209313	Jeremie Marshall	Center Point High School	Roderic P Taylor	Center Point AL
US210180		Michael Smith		y Heights NY	AST209023	Ronald Marshall	Upgrade	ETA International	Greencastle IN
				,	AST209295	Evans Martin	Upgrade	ETA International	Greencastle IN
					AST209063	Jimmy McCracken	Upgrade	ETA International	Greencastle IN
7	a a aut aut a	OTH Howards	O 1		AST210522	Geremy McCray	Upgrade	ETA International	Orlando FL
AS	sociate (CET Hands-	On Asses	ssment	AST208768	Joseph McCuen	Salt Lake Community College	Gilbert Ulibarri Jr	Salt Lake City UT
					AST210136	Brayden Meduna	Nida Corp	Kevin Gulliver	Louisville KY
The following	technicians completed	their optional hands-on practical	assessment for the Associ	ate Certified Electronics	AST209618	Kenrady Mom	Greater Lowell Technical HS	Robert L Rondeau	Tyngsboro MA
	congratulations!	anon optional natios-on practical	accomment for the rissuel	ato Jordinou Electronica	AST209619	Tyler Nhan	Greater Lowell Technical HS	Robert L Rondeau	Tyngsboro MA
		Nomo	Loooties		AST209929	Donald Nicholson Michael Oyola	Upgrade YTI Career Institute	ETA International	Greencastle IN
Cert Number AHOA2101		Name M Ruiz-Aponte	Location Melbourr	no FI	AST209473 AST209075	Michael Oyola Austin Palmer	Indian Hills Community College	Walt Bilous James J Goudy	York PA Ottumwa IA
AHOA2101		Prondon Avoro	Molbour		AS1209075 AST200170	Camual Danczak	Manlowood Caroor Contor	Tod I Karam	Pavanna OH

AST209170

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AST209777

AST209477

AST209605

AST210229

Melbourne FL

Melbourne FL

Hartford CT

Melbourne FL

Melbourne FL

Melbourne FL

Melbourne FL

Hartford CT

Framingham MA

Samuel Panczak

Rose Parker

Stephen Plekan

Lauren Porter

Dylan Richey

Juan Romero

Noah Russell

Alejandro Santana

Warren Saunders

Aaron Schooley

Stephen Sikorski

Aria Siriouthay

Calin Spohn

Dana Scott

Jonathan Ramirez

Visoth Pen

Maplewood Career Center

Greater Lowell Technical HS

Greater Lowell Technical HS

Indian Hills Community College

Greater Lowell Technical HS

American Marine Training Centers

University of Alaska Fairbanks

Greater Lowell Technical HS

Greater Altoona Career & Tech Ctr

Troy Public Library

Upgrade

Upgrade

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Centinela SP

YTI Career Institute

Ravenna OH

Greencastle IN

Tyngsboro MA

Tyngsboro MA

Greencastle IN

Outtumwa IA

Imperial CA

Tyngsboro MA

Sequim WA

Fairbanks AK

Greencastle IN

Ft Gordon GA

Tyngsboro MA

Altoona PA

York PA

Troy NY

Ted J Karam

ETA International

Robert L Rondeau

Christine Filippelli

Robert I Rondeau

ETA International

James J Goudy

Alejandro Diaz

Walt Bilous

Patty White

Robert L Rondeau

Yvette S Stairrett

ETA International

Robert E Evans

Scott Dalby

Robert L Rondeau

Associate Certified Electronics Technician (CETa)

AH0A210217

AH0A209784

AH0A209761

AHOA210216 AHOA209780

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AHOA209697

AST209621	Phillip Abad	Greater Lowell Technical HS	Robert L Rondeau	Tyngsboro MA
AST210320	ldris Abdulmalik	Associated Technical College	Arnulfo C Runas	Long Beach CA
AST209465	Jonathan Allbright	B & C Communications	Cynda C Simmons	Columbus OH
AST209887	Robert Araujo	Ungrade	FTA International	Greencastle IN

Brandon Avera

William Hose

Michael Qualls

Bradley Sweeney

Paul Stovall

James Hamilton

Donald Nicholson

Michael Payne Jean Caleb Phanord



March Marc										SOCIATIO
	CERT #	NAME	SCHOOL	PROCTOR	LOCATION	CERT #	NAME	SCHOOL	PPOCTOR	LOCATION
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Security										
Commonweight Comm										
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ETA CERTIFIED TECHNICIANS The following is a list of professionals who have earned new certifications between June 1 and July 31, 2018 under one or more of ETA International's 80+ certification programs. Names of these highly qualified technicians have earned ETA's formal endorsement and approval.

CERT. #	NAME	SCHOOL	PROCTOR	LOCATION	CERT. #	NAME	SCHOOL	PROCTOR	LOCATION
CSS210171	Brieana Jeibmann	Nida Corp	Kevin Gulliver	Louisville KY	CSS210280	Daniel Perez	CALPIA	Lisa Gularte	San Diego CA
CSS210161	Jordan Johnson	Nida Corp	Kevin Gulliver	Louisville KY	CSS209318	P Phanbandith	Salinas Valley SP	Javier Trujillo	Soledad CA
CSS209795	Ronnell Johnson	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS210089	Karen Phifer	Windham School District	Debbie A White	Burnet TX
CSS210023	Shunna Johnson	Windham School District	Verna L Land	SanSaba TX	CSS210095	Marissa Pickering	Windham School District	Debbie A White	Burnet TX
CSS208848 CSS209831	Chellyn Jones Erneshia Jones	Sierra Vista Adult School (CCWF) Urban League - Cntrl Carolinas	Linda Bolton Johnny L Worthy	Chowchilla CA Charlotte NC	CSS210067 CSS208960	Corrina Piel MaryJane Plante	Windham School District CALPIA	Debbie A White Justin Andrews	Burnet TX Chowchilla CA
CSS209834	Sharon Jones	Urban League - Cntrl Carolinas	Johnny L Worthy	Charlotte NC	CSS209544	Patricia Presba	Valley SP	Justin Andrews	Chowchilla CA
CSS209821	Augustin Kasongo	Urban League - Cntrl Carolinas	Johnny L Worthy	Charlotte NC	CSS210060	Karleatha Price	Sierra Vista Adult School (CCWF)	Linda Bolton	Chowchilla CA
CSS209814	Jeffrey Keyes	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS209500	Benjamin Pulido	Windham Schl Dist, Dominguez	Paul D Massey	San Antonio TX
CSS210152	Yousef Khalil	Nida Corp	Kevin Gulliver	Louisville KY	CSS209550	Consuelo Pureco	Folsom Women's Facility CTE/HFM	Phillip G Moore	Folsom CA
CSS210071	Emyle Killman	Windham School District	Debbie A White	Burnet TX	CSS208963	Elizabeth Randall	CALPIA	Vincent Moralez	Folsom CA
CSS209659	Keung Han Kim	CTF - Soledad - CALPIA	Dale R Mulhern	Soledad CA	CSS209874	Paul Reid	Windham School District	Cynthia Turner	Hondo TX
CSS210024	Beth Kirby	Windham School District	Verna L Land	SanSaba TX	CSS209793	Steven Rincon	CALPIA	Stephen LeNoir	San Luis Obispo CA
CSS210107	Ryan Knepel	Nida Corp	Kevin Gulliver	Louisville KY	CSS208844	Antwaion Robinson	CALPIA	Alejandro Diaz	Imperial CA
CSS210117	Jace Lairsey	Nida Corp	Kevin Gulliver	Louisville KY	CSS210334	Greg Robinson	CALPIA	William B Anderson	Soledad CA
CSS208961	Shaunda Lane	CALPIA	Vincent Moralez	Folsom CA	CSS210379	Jubral Robinson	PRIDE Enterprises	Jessica Driggers	Brandon FL
CSS209549	Deborah Lange	Folsom Women's Facility CTE/HFM	Phillip G Moore	Folsom CA	CSS208959	Lizbeth Robles	CALPIA	Alison Reidel	Folsom CA
CSS210073	Catherean Latson	Windham School District	Debbie A White	Burnet TX	CSS209152	Roy Robles	Windham School District	Elia Hernandez	San Antonio TX
CSS209300	Johnny Leonard	Vetarans Assembled electronics	Jason E Greene	Concord NC	CSS209547	Cherie Rodriguez	Folsom Women's Facility CTE/HFM	Phillip G Moore	Folsom CA
CSS209150 CSS209135	Joseph Leonard Cleofas Lewis	Windham School District CALPIA	Elia Hernandez	San Antonio TX Vacaville CA	CSS209995 CSS210086	Casey Ruis Cassandra Ruiz	PRIDE Enterprises Windham School District	Jessica Driggers Debbie A White	Brandon FL Burnet TX
CSS209133	Lewis Lindo	Urban League - Cntrl Carolinas	Caryn A Argenio Johnny L Worthy	Charlotte NC	CSS209154	Michael Ruiz	Windham School District	Elia Hernandez	San Antonio TX
CSS210330	Martin Lomas	CALPIA	Rebecca J Hall	Soledad CA	CSS210042	Kenneth Russian	CALPIA	Robert L Martinez	Tehachapi CA
CSS210226	Edward Long	CALPIA - MCSP	Valerie J Lacebal	Ione CA	CSS209548	Ramona Sandoval	Folsom Women's Facility CTE/HFM	Phillip G Moore	Folsom CA
CSS209161	Pedro Lopez	Windham School District	Elia Hernandez	San Antonio TX	CSS209841	Sariah Sands	Skills Oregon	Jeri Davis	Milwaukie OR
CSS209319	Paul Loutzenhiser	CTF - Soledad - CALPIA	Dale R Mulhern	Soledad CA	CSS209066	Joshua Santos	Careerline Tech Center	Nancy L Kuzma	Holland MI
CSS210041	Marcos Luna	CALPIA	Robert L Martinez	Tehachapi CA	CSS209153	Alejandro Saucedo	Windham School District	Elia Hernandez	San Antonio TX
CSS209160	Obdulio Mancillas	Windham School District	Elia Hernandez	San Antonio TX	CSS209817	Elizabeth Schatz	Folsom Women's Facility	Vincent Moralez	Folsom CA
CSS210114	Lawbert Mankle	Nida Corp	Kevin Gulliver	Louisville KY	CSS209991	Ryan Sheidow	ETA International	Richard W Booth Jr	Louisville KY
CSS210004	Kyle Martin	ETA International	Richard W Booth Jr	Louisville KY	CSS209487	James Shepherd	CALPIA	Katica Bryant	Susanville CA
CSS210040	Anthony Martinez	CALPIA	Robert L Martinez	Tehachapi CA	CSS210082	Tonja Sherburne	Windham School District	Debbie A White	Burnet TX
CSS209495	Richard Martinez	Windham Schl Dist, Dominquez	Paul D Massey	San Antonio TX	CSS209499	Justin Short	Windham Schl Dist, Dominquez	Paul D Massey	San Antonio TX
CSS209159	Victor Martinez	Windham School District	Elia Hernandez	San Antonio TX	CSS209877	William Shults	Windham School District	Cynthia Turner	Hondo TX
CSS210028	Brittany Massengill	Windham School District	Verna L Land	SanSaba TX	CSS208966	Lamar Simms	Folsom SP	Alan Alger	Folsom CA
CSS209371 CSS210150	Jake Mattingly Jonathan Mauser	Careerline Tech Center Nida Corp	Nancy L Kuzma Kevin Gulliver	Holland MI Louisville KY	CSS209299 CSS209809	Quincy Singletary Andrew Smith	Veterans Assembled electronics CALPIA	Jason E Greene Stephen LeNoir	Concord NC San Luis Obispo CA
CSS210130	Kristine Mayes	Windham School District	Debbie A White	Burnet TX	CSS210076	Bailey Smith	Windham School District	Debbie A White	Burnet TX
CSS209372	Hunter Maynard	Careerline Tech Center	Nancy L Kuzma	Holland MI	CSS210070	Christine Smith	CALPIA	Caryn A Argenio	Folsom CA
CSS210225	Veronica McCall	CALPIA	Caryn A Argenio	Folsom CA	CSS210409	Curtis Smith	,CALPIA	Dale R Mulhern	Soledad CA
CSS209158	Cordell McCarter	Windham School District	Elia Hernandez	San Antonio TX	CSS210044	Maria Soto	CALPIA	Alison Reidel	Folsom CA
CSS209876	Justin McCarthy	Windham School District	Cynthia Turner	Hondo TX	CSS208958	Anthony Spears	CALPIA	Aliza Shaw	Jamestown CA
CSS209306	Jimmy McCracken	Veterans Assembled electronics	Harry L Adams	Concord NC	CSS210093	Jessica Spears	Windham School District	Debbie A White	Burnet TX
CSS209790	Barnard McGaughy	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS209980	Bailey St Clair	ETA International	Richard W Booth Jr	Louisville KY
CSS210137	Brayden Meduna	Nida Corp	Kevin Gulliver	Louisville KY	CSS210083	Sahvanna Stateler	Windham School District	Debbie A White	Burnet TX
CSS209134	Daisy Mendez	CALPIA	Vincent Moralez	Folsom CA	CSS210128	Aaron Stocker	Nida Corp	Kevin Gulliver	Louisville KY
CSS210100	Michelle Mendez	Windham School District	Debbie A White	Burnet TX	CSS208845	Kevin Stokes	CALPIA	Linda Goodman	lone CA
CSS210027	Raven Mickens	Windham School District	Verna L Land	SanSaba TX	CSS209421	Ben Stolieckas	Careerline Tech Center	Nancy L Kuzma	Holland MI
CSS209149	Erik Mijarez Davine Millar	Windham School District Sierra Vista Adult School (CCWF)	Elia Hernandez	San Antonio TX Chowchilla CA	CSS210066	Summer Story Sara Summerhill	Windham School District	Debbie A White	Burnet TX Louisville KY
CSS208828 CSS209157	Terrell Mills	Windham School District	Danny M Clark Elia Hernandez	San Antonio TX	CSS210132 CSS209132	Sara Summermii Bre'Anna Tavlor	Nida Corp CALPIA	Kevin Gulliver Phillip G Moore	Folsom CA
CSS209810	Donald Mitchell	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS209792	Lee Thao	CALPIA	Patricia Ackman	Vacaville CA
CSS209879	Sean Monson	Windham School District	Cynthia Turner	Hondo TX	CSS209755	Christopher Thompson	Pleasant Valley Adult School	Susana Solis	Lancaster CA
CSS209545	Karen Moore	Valley SP	Justin Andrews	Chowchilla CA	CSS209878	Michael Threatt	Windham School District	Cynthia Turner	Hondo TX
CSS209989	Roy Moore	ETA International	Richard W Booth Jr	Louisville KY	CSS210318	Evan Toth	ETA International	Richard L Karlowsky	Charleroi PA
CSS210088	Shelby Moore	Windham School District	Debbie A White	Burnet TX	CSS210120	Tyler Tucker	Nida Corp	Kevin Gulliver	Louisville KY
CSS209369	Nate Moored	Careerline Tech Center	Nancy L Kuzma	Holland MI	CSS210363	Bradley Twinam	Pride Enterprises	Amizarel Moyet	Avon Park FL
CSS209934	Uvaldo Mora	Centinela SP	Alejandro Diaz	Imperial CA	CSS210063	Jessica Va	Windham School District	Debbie A White	Burnet TX
CSS209485	Eladio Morales	CALPIA ASP HFM	Victor Lustre	Avenal CA	CSS209165	Christopher Valadez	Windham School District	Elia Hernandez	San Antonio TX
CSS209812	Henri Morales	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS210286	John Vang	CALPIA	Patricia Ackman	Vacaville CA
CSS209552	Natalie Morales	Folsom Women's Facility CTE/HFM	Phillip G Moore	Folsom CA	CSS209363	Sara VanOrder	Careerline Tech Center	Nancy L Kuzma	Holland MI
CSS210359	Breanna Morris	Central Ridge Library	Adam Chang	Beverly Hills FL	CSS210075	Andrea Vasquez	Windham School District	Debbie A White	Burnet TX
CSS210112 CSS209497	Joseph Mosley Omar Moya	Nida Corp Windham School District,	Kevin Gulliver Paul D Massey	Louisville KY San Antonio TX	CSS209181 CSS209486	Ronnie Vaughn Edgar Velazquez	Centinela SP CALPIA ASP HFM	Alejandro Diaz Victor Lustre	Imperial CA Avenal CA
CSS210232	Zachary Mullen	Greater Altoona Career & Tech Ctr	Scott Dalby	Altoona PA	CSS210410	Charles Venzor	CALPIA	Rebecca J Hall	Soledad CA
CSS209156	James Munoz	Windham School District	Elia Hernandez	San Antonio TX	CSS210070	Bobbi Villanueva	Windham School District	Debbie A White	Burnet TX
CSS208955	Horacio Navarro	CALPIA	Michelle Purdy	Susanville CA	CSS209837	Wendy Wade	Urban League - Cntrl Carolinas	Johnny L Worthy	Charlotte NC
CSS209992	Noah Nelson	ETA international	Richard W Booth Jr	Louisville KY	CSS210887	Amie Wakefield	Windham School District	Debbie A White	Burnet TX
CSS210224	Keith Nesbitt	CALPIA	Alan Alger	Folsom CA	CSS209988	William Wallace	ETA International	Richard W Booth Jr	Louisville KY
CSS209820	Beggy Ngango	Urban League - Cntrl Carolinas	Johnny L Worthy	Charlotte NC	CSS210006	Christopher Waters	ETA International	Richard W Booth Jr	Louisville KY
CSS208956	Son Nguyen	CALPIA	Michelle Purdy	Susanville CA	CSS209484	Kenneth Whitehead	TN College of Applied Technology	Shirley M Brown	Hohenwald TN
CSS209803	Jacob Nielsen	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS209811	Darryl Williams	CALPIA	Stephen LeNoir	San Luis Obispo CA
CSS210069	Delani Nissen	Windham School District	Debbie A White	Burnet TX	CSS209969	Gerald Williams	Windham School District	Cynthia Turner	Hondo TX
CSS210331	Johnny Norton	CALPIA	William B Anderson	Soledad CA	CSS210090	Charise Wright	Windham School District	Debbie A White	Burnet TX
CSS209813	Christopher Oatey	CALPIA	Stephen LeNoir	San Luis Obispo CA	CSS210383	Paul Wright	PRIDE Enterprises	Jessica Driggers	Brandon FL
CSS210081	Ronda Ogilvie	Windham School District CALPIA	Debbie A White Justin Andrews	Burnet TX	CSS210285	Gilbert Yliz	CALPIA Folsom Woman's Facility CTF/HEM	Anthony Ekwosi	San Diego CA
CSS209131 CSS209982	Charlotte O'Neil Jacob O'Shaughnessy	ETA International	Richard W Booth Jr	Chowchilla CA Louisville KY	CSS209546 CSS209835	Alicia Zaragoza Kimyon Zari	Folsom Women's Facility CTE/HFM Urban League - Cntrl Carolinas	Phillip G Moore Johnny L Worthy	Folsom CA Charlottle NC
CSS210380	James Parker	PRIDE Enterprises	Jessica Driggers	Brandon FL	000203000	rannyon Zarl	ornan reagne - outil (qualing)	Johnny E Worthly	onanottie NO
CSS209694	Rose Parker	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL	Compute	r Service Techi	nician (CST)		
CSS210412	Ray Pascual	CALPIA	Rebecca J Hall	Soledad CA	CST209343	M Abdul Majeed	Rollover	ETA International	Greencastle IN
CSS209839	MacKenna Payne	Skills Oregon	Jeri Davis	Milwaukie OR	CST209301	Shahabaz Basheer E	Nirmalagiri College	Syriac K Jose	Kerala India
CSS209498	Jesus Pena	Windham Schl Dist, Dominquez	Paul D Massey	San Antonio TX	CST209523	Fred Craycraft	Rollover	ETA International	Greencastle IN
CSS208957	Luis Penaloza	CALPIA	Michelle Purdy	Susanville CA	CST209926	Roxanne Dias	Rollover	ETA International	Greencastle IN
CSS209323	Alex Perez	CALPIA	Patricia Ackman	Vacaville CA	Distribut	ad Amta 0	otomo (DAC)		
CSS209155	Antonio Perez	Windham School District	Elia Hernandez	San Antonio TX		ed Antenna Sy			
CSS209501	Christopher Perez	Windham Schl Dist, Dominquez	Paul D Massey	San Antonio TX	DAS210048	Chris LaPerle	Stayton Public Library	Stephanie Rubel	Stayton OR



									OCIA
CERT. #	NAME	SCHOOL	PROCTOR	LOCATION	CERT. #	NAME	SCHOOL	PROCTOR	LOCATION
DAS209526	Kelly Murphy	North Seattle College	Charles J Eckard	Seattle WA	EM1210357	Vincent Watkins	Veterans Assembled electronics	Harry S Adams	Concord NC
DAS210540	Zachary Zagarri	Dane Brockmiller Consulting	Dane R Brockmiller	Eureka MO	EM1210219	Brandon Watson	Veterans Assembled electronics	Jason E Greene	Concord NC
Doto Co	bling Installer	(DCI)			EM1209698	Kenneth Whitehead	TN College of Applied Technology	Shirley M Brown	Hohenwald TN
	bling Installer		D. I. 1001	W D L.W.	EM1209246	Daniel Williams	West Stanly High School	Adam Storms	Oakboro NC
DCI209324 DCI209329	Tyler Blagg Isaiah Burke	Advanced Technology Center Advanced Technology Center	Robert C Stover Robert C Stover	Virginia Beach VA Virginia Beach VA	Electroni	cs Modules -	AC (FM2)		
DCI210012	Hunter Casteel	ETA International	Richard W Booth Jr	Louisville KY	EM2209424	Marco Antonio	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA
DCI209337	Gunnar Halloran	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209296	Christopher Barclay	Veterans Assembled electronics	Francisco A Sablan	Belleview FL
DCI209334	Tristan Harn	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209106	Jose Carpio	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL
DCI209330	Travis Jackson	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209129	Luke Craver	Wichita Area Technical College	Joseph Varrientos	Wichita KS
DCI209325	Charles King	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209650	Runako Dixon	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
DCI209327	Corey Letourneau	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209689	Enrico Fagnano	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
DCI209336	Luisana Mendoza	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209127	Daniel Freund	Wichita Area Technical College	Joseph Varrientos	Wichita KS
DCI210009	Donovan Tames	ETA International	Richard W Booth Jr	Louisville KY	EM2210304	Howard Jackson	Veterans Assembled electronics	John W Young	Framingham MA
DCI209326	Jay Wertz	Advanced Technology Center	Robert C Stover	Virginia Beach VA	EM2209750	Christopher Jacobs	Veterans Assembled electronics	Anthony J Ruoti	Providence RI
Flectron	ics Modules - I	DC (FM1)			EM2209628	Richard Johnson	Veterans Assembled electronics	Robert C Berlin Joseph Williams	Orlando FL
EM1210238	Ruth Baker	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	EM2210235 EM2209622	Sasha Johnson Ricardo Lebron	Bishop State Community College Veterans Assembled electronics	Robert C Berlin Jr	Mobile AL Orlando FL
EM1210238	D Barcenas Alvarado	North Johnston High School	James W Phillips	Kenly NC	EM2209280	Junior Leon	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL
EM1210306	Wesley Browne	Veterans Assembled electronics	Harry L Adams	Fayetteville NC	EM2209973	Jamicheal Loyd	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL
EM1209285	Timothy Carter	SouthWest Edgecombe HS	Frank Matthews	Pinetops NC	EM2209767	Geremy McCray	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
EM1209034	Verenice Castaneda	High Point Central	Christopher C Moore	High Point NC	EM2209624	Brian Mendon	Veterans Assembled electronics	Francisco A Sablan	Belleview FL
EM1208980	Kacie Clark	North Johnston High School	James W Phillips	Kenly NC	EM2210446	Scott Morris	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM1209205	Matthew Cochran	Bishop State Community College	Joseph Williams	Mobile AL	EM2209304	Keith Morrow	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
EM1209270	Richard Crist	Crest High School	Walter S Spurling	Shelby NC	EM2209649	Andrew Olsson	Veterans Assembled electronics	Jason E Greene	Concord NC
EM1209264	Sierra Crocker	Crest High School	Walter S Spurling	Shelby NC	EM2209428	Jonathan Polignone	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA
EM1209032	Dylan Davis	High Point Central	Christopher C Moore	High Point NC	EM2209426	Pablo Rodriguez	Peabody Veterans Memorial High School		Peabody MA
EM1209316	Christ Davis-Tanner	SouthWest Edgecombe HS	Frank Matthews	Pinetops NC	EM2209128	Patrick Roell	Wichita Area Technical College	Joseph Varrientos	Wichita KS
EM1209247	Colin DeWall	West Stanly High School	Adam Storms	Oakboro NC	EM2210445	Rodrigo Santos	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT
EM1209248	River Dodd	West Stanly High School	Adam Storms	Oakboro NC	EM2210058	Brian Shofner	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM1208981	Sydney Durham	North Johnston High School	James W Phillips	Kenly NC	EM2209425	Christopher Silverio	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA
EM1209359	Enrico Fagnano Matt Frost-Shoemaker	Veterans Assembled electronics SouthWest Edgbecombe HS	Clyde J Dolly Frank Matthews	Melbourne FL	EM2210310	Kevin Smith Marshall Smith	Veterans Assembled electronics	John W Young	Framingham M. Wichita KS
EM1209344 EM1209345	Ariel Garcia	Veterans Assembled electronics	Robert C Berlin Jr	Pinetops NC Orlando FL	EM2209130 EM2210201	Christopher Sowa	Wichita Area Technical College Veterans Assembled electronics	Joseph Varrientos Derek Abrassart-White	Hartford CT
EM1209033	Dominik Goetsch	High Point Central	Christopher C Moore	High Point NC	EM2209651	Richard Timberlake	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT
EM1203055	Joana Goulos	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA	EM2210406	Joshua Van Auken	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL
EM1209557	Vayise Greene	Hanover High School	Chandra N Rhue	Mechanisville VA	EM2209974	Brian Walsh	Veterans Assembled electronics	Anthony J Ruoti	Providence RI
EM1209263	William Greene	Crest High School	Walter S Spurling	Shelby NC	EM2209427	Justin Walsh	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA
EM1209202	Nicholas Griffin	Bishop State Community College	Joseph W Battista	Mobile AL	EM2209997	Kenneth White	FCI Ray Brook	Matthew C Russell	Ray Brook NY
EM1209274	Garrett Hamilton	Crest High School	Walter S Spurling	Shelby NC			•		
EM1209558	Jonathan Harnois	Hanover High School	Chandra N Rhue	Mechanicsville VA	Electroni	cs Modules -	Analog (EM3)		
EM1209244	Dylan Hatley	West Stanly High School	Adam Storms	Oakboro NC	EM3209118	Robert Araujo	Veterans Assembled electronics	John W Young	Framingham M
EM1209632	Erik Henson	Greater Lowell Technical HS	Timothy L Yauch	Waldorf MD	EM3209747	Christopher Barclay	Veterans Assembled electronics	Francisco A Sablan	Belleview FL
EM1209265	Tyler Henson	Crest High School	Walter S Spurling	Shelby NC	EM3209051	Sheldon Bingham	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
EM1209648	Howard Jackson	Veterans Assembled electronics	John W Young	Framingham MA	EM3210237	Kyle Braden	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT
EM1209279	Damemian Jadoo	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	EM3210239	Daniel Clark	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT
EM1208986	Joshua Johnson	North Johnston High School	James W Phillips	Kenly NC	EM3210175	Sean DeJongh	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT
EM1209571	Quashon Johnson	SouthWest Edgecombe HS Veterans Assembled electronics	Frank Matthews Robert C Berlin Jr	Pinetops NC Orlando FL	EM3209970 EM3209626	Enrico Fagnano Mark Giuliano	Veterans Assembled electronics Veterans Assembled electronics	Clyde J Dolly Robert C Berlin Jr	Melbourne FL Orlando FL
EM1208927 EM1209573	Bryan Jones Michael Joyner	SouthWest Edgecombe HS	Frank Matthews	Pinetops NC	EM3209199	James Hamilton	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM12095/3	John Lander	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA	EM3209692	Alshun Huston	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
EM1209236	Zachary Landrum	Bishop State Community College	Joseph Williams	Mobile AL	EM3210305	Christopher Jacobs	Veterans Assembled electronics	Zachary Barrett	Providence RI
EM1209787	Antoine Loud	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	EM3209050	Keith Laird	Veterans Assembled electronics	Robert C Berlin	Orlando FL
EM1209638	Benjamin Martin	North Point High School	Timothy L Yauch	Waldorf MD	EM3209975	Ricardo Lebron	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL
EM1208982	Naomi Melniciuc	North Johnston High School	James W Phillips	Kenly NC	EM3208942	Evans Martin	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL
EM1209260	Osvaldo Montesino	Crest High School	Walter S Spurling	Shelby NC	EM3210169	Geremy McCray	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
EM1209788	Scott Morris	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	EM3210057	Brian Mendon	Veterans Assembled electronics	Francisco A Sablan	Belleview FL
EM1208984	C Nadeau-Edwards	North Johnston High School	James W Phillips	Kenly NC	EM3210447	Keith Morrow	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL
EM1209528	Bernard Odae	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL	EM3209298	Donald Nicholson	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM1209311	Andrew Olsson	Veterans Assembled electronics	Jason E Greene	Concord NC	EM3209766	Andrew Olsson	Veterans Assembled electronics	Jason E Greene	Concord NC
EM1208939	Erick Ortiz	Lexington City Schools	Len S Butts	Lexington NC	EM3209356	Michael Payne	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM1208970	Efrain Parilla-Merced	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	EM3209350	M Ruiz-Aponte	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM1209642 EM1209166	Christina Parrales Efrain Parrilla-Merced	North Point High School Veterans Assembled electronics	Timothy L Yauch	Waldorf MD Hartford CT	EM3210469 EM3210408	Brian Shofner	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL Hartford CT
EM1209166 EM1208983	Nicholas Pigg	North Johnston High School	Tony J Denaro James W Phillips	Kenly NC	EM3209775	Christopher Sowa Jesse Stark	Veterans Assembled electronics FCI Ray Brook	Tony J Denaro Matthew C Russell	Ray Brook NY
EM1210212	Alexander Reshetov	Veterans Assembled electronics	Harry L Adams	Fayetteville NC	EM3210234	Richard Timberlake	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT
EM1209259	Luke Reynolds	Crest High School	Walter S Spurling	Shelby NC	EM3210234 EM3209998	Kenneth White	FCI Ray Brook	Matthew C Russell	Ray Brook NY
EM1210059	Jermaine Richardson	Veterans Assembled electronics	Anthony J Ruoti	Providence RI					.,
EM1209562	Noah Roan	Peabody Veterans Memorial HS	Dale Larocque	Peabody MA	Electroni	cs Modules -	Digital (EM4)		
EM1209192	C Robison-Peterson	South Stanly High School	William E Sorenson	Norwood NC	EM4209656	Mario Anzaldo	Paul Fields	Paul S Fields Jr	Ft Wainwright A
EM1210307	Rodrigo Santos	Veterans Assembled electronics	Tony J Denaro	Hartford CT	EM4209693	Robert Araujo	Veterans Assembled electronics	John T Young	Framingham M
EM1209752	Brian Shofner	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	EM4209931	Christopher Barclay	Veterans Assembled electronics	Francisco A Sablan	Belleview FL
EM1210049	Kevin Smith	Veterans Assembled electronics	John W Young	Framingham MA	EM4209085	Jacob Berlinski	West Stanly High School	Adam Storms	Oakboro NC
EM1209978	Christopher Sowa	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	EM4209678	Sheldon Bingham	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL
EM1209266	Seth Spurling	Crest High School	Walter S Spurling	Shelby NC	EM4209695	Daniel Clark	Veterans Assembled electronics	Tony J Denaro	Hartford CT
EM1209441	Noah Stilwell	Crest High School	Walter S Spurling	Shelby NC	EM4208943	Ray Colon	Veterans Assembled electronics	Francisco A Sablan	Belleview FL
EM1210507	Thomas Sullivan	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	EM4209145	Aida DeJesus	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL
EM1200504	Randon Summers	SouthWest Edgecombe HS	Frank Matthews	Pinetops NC Machanicsvilla VA	EM4208941	Jonathan Dudak	Carbon Career & Technical Inst	Joseph S Farkas	Jim Thorpe PA
EM1209594	Joseph Theakston	Hanover High School Bishop State Community College	Chandra N Rhue Joseph Williams	Mechanicsville VA Mobile AL	EM4210448 EM4209893	Enrico Fagnano Mark Giuliano	Veterans Assembled electronics Veterans Assembled electronics	Clyde J Dolly Michael S Hagedorn	Melbourne FL Orlando FL
EM1209564	Cody Thornton		Joseph Millidilly		EM4209652	James Hamilton	Veterans Assembled electronics	Clyde J Dolly	
EM1209564 EM1209237	Cody Thornton		Dorok Abrassart Whit-	Hartford CT					
EM1209564 EM1209237 EM1209016	Richard Timberlake	Veterans Assembled electronics	Derek Abrassart-White Michael S Hagedorn	Hartford CT Orlando FI					Melbourne FL Providence RI
EM1209564 EM1209237 EM1209016 EM1209979	Richard Timberlake Joshua Van Auken	Veterans Assembled electronics Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	EM4209303	Brandon Harris	Veterans Assembled electronics	Anthony J Ruoti	Providence RI
EM1209564 EM1209237 EM1209016 EM1209979 EM1209596	Richard Timberlake Joshua Van Auken Daniel Varnell	Veterans Assembled electronics Veterans Assembled electronics SouthWest Edgecombe HS	Michael S Hagedorn Frank Matthews	Orlando FL Pinetops NC	EM4209303 EM4210047	Brandon Harris Alshun Huston	Veterans Assembled electronics Veterans Assembled electronics	Anthony J Ruoti Michael S Hagedorn	Providence RI Orlando FL
EM1209564 EM1209237 EM1209016 EM1209979	Richard Timberlake Joshua Van Auken	Veterans Assembled electronics Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	EM4209303	Brandon Harris	Veterans Assembled electronics	Anthony J Ruoti	Providence RI

ETA CERTIFIED TECHNICIANS The following is a list of professionals who have earned new certifications between June 1 and July 31, 2018 under one or more of ETA International's 80+ certification programs. Names of these highly qualified technicians have earned ETA's formal endorsement and approval.

CERT. #	NAME	SCHOOL	PROCTOR	LOCATION	CERT. #	NAME	SCHOOL	PROCTOR	LOCATION
EM4209117	Evans Martin	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL	F0I209708	Brian Allen	Light Brigade	Mark P Kazes	Anaheim CA
EM4210354	Geremy McCray	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	F0I210442	David Alonso	Light Brigade	Robert E Dorian	El Paso TX
EM4210312	Brian Mendon	Veterans Assembled electronics	Francisco A Sablan	Belleview FL	F0I209059	Daniel Alonzo	364TRS/TTKMS	Steven G Baker	Sheppard AFB TX
EM4209432	Dakota Mercer	ECPI University	John Bowerman	Charlotte NC	F0I209220	Matthew Alvarez	Light Brigade	Phil J Shoemaker	Hobbs NM
EM4208977	Susi Moreno-Ruiz	North Johnston High School	James W Phillips	Kenly NC	F0I210494	Rolando Alvarez	Light Brigade	John C Dron	Orlando FL
EM4209297	Seth Morton	West Stanly High School	Adam Storms	Oakboro NC	F0I209842	Chris Ambrocio-Cuevas	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA
EM4209679	Donald Nicholson	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I210421	Anthony Anaya	SENU	Jacob A Atkins	Ft Campbell KY
EM4210464	Andrew Olsson	Veterans Assembled electronics	Harry L Adams	Concord NC	F0I209844	Ed Araujo-Rodriguez	Courage University, G6, I Corps	Jason L Brumet	Ft lewis WA
EM4209691	Michael Payne	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I210367	Frankie Armijo	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
EM4209146	Jean Caleb Phanord	Veterans Assembled electronics	John W Young	Framingham MA	F0I209858	Juan Arreguin	TX Engineering Extension Srvc	Joe D Smith	College Station TX
EM4209086	Jaron Price	West Stanly High School	Adam Storms	Oakboro NC	F0I210193	Matt Arroyo Guzman	364 TRS/TTKMS	Henry Yates III	Sheppard AFB TX
EM4209884	M Ruiz-Aponte	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I210037	Jeffery Austin	SENU	Jacob A Atkins	Ft Campbell KY
EM4209430	Casey Sanders	ECPI University	John Bowerman	Charlotte NC	F0I210264	Brennen Baker	Light Brigade	John C Dron	Baton Rouge LA
EM4209771	Adam Ward	Paul Fields	Paul S Fields Jr	Ft Wainwright AK	F0I209857	David Baker	TX Engineering Extension Srvc	Joe D Smith	College Station TX
EM4209999	Kenneth White	FCI Ray Brook	Matthew C Russell	Ray Brook NY	F0I210186	Declan Ballard	364 TRS/TTKMS US Army - CECOM	Henry Yates III	Sheppard AFB TX
Flectron	ics Modules -	Comprehensive (EM5))		F0I209721 F0I210337	Scott Banuelos Victor Barajas	APT College	Joshua M Jackson Debra J Cruickshank	Camp Buehring Kuwait Sacramento CA
EM5209098	Jordan Acosta	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209457	Darren Bark	ETA International	George G Franceschi	National City CA
EM5209038	Alisha Altidor	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209722	Renato Barrera	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait
EM5209886	Robert Araujo	Veterans Assembled electronics	John W Young	Framingham MA	F0I210418	Matthew Basso	SENU	Jacob A Atkins	Ft Campbell KY
EM5210170	Christopher Barclay	Veterans Assembled electronics	Francisco A Sablan	Belleview FL	F0I210263	Bert Batchelor	Light Brigade	John C Dron	Batton Rouge LA
EM5209748	Sheldon Bingham	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	F0I209918	Marc Bauzon	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
EM5209099	William Carnero	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I210441	Tony Beal	Light Brigade	Mark P Kazes	Spartanburg SC
EM5209107	Jorge Chavez	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209704	Zachary Beard	Light Brigade	Mark P Kazes	Melbourne FL
EM5210176	Daniel Clark	Veterans Assembled electronics	Tony J Denaro	Hartford CT	F0I210440	Jason Beck	Light Brigade	Mark P Kazes	Spartanburg SC
EM5209292	Ray Colon	Veterans Assembled electronics	Francisco A Sablan	Belleview FL	F0I210436	Larry Belcher	Light Brigade	Mark P Kazes	Spartanburg SC
EM5209479	Aida DeJesus	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F01208996	James Bendele	Pacific Signal University	Scott B Teder	Ft Stewart GA
EM5209103	Bryan Feliciano	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209060	Dillon Benefield	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
EM5209783	James Hamilton	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I209947	Daniel Berniche	Light Brigade	Mark P Kazes	Lowell MA
EM5209053	Lorenzo Hanna	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I209447	Benjamin Binoniemi	ECPI University	Norman D Blackburn	Greensboro NC
EM5209119	Wayne Heckman	Veterans Assembled electronics	John W Young	Framingham MA	F01209452	Jesse Blanchard	ECPI University	Norman D Blackburn	Greenboro NC
EM5209113	J Zahee Hollingsworth	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209375	Nelson Bond	Light Brigade	Cameron L Karch	Alexandria VA
EM5209760	William Hose	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	F0I210261	Stuart Booth	Light Brigade	John C Dron	Baton Rouge LA
EM5210294	Alshun Huston	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	F0I210260	Robert Bordelon	Light Brigade	John C Dron	Baton Rouge LA
EM5209105	Ismael Jimenez-Garcia	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209203	Peyton Boudreaux	light Brigade	Albon E Gilbert	Mobile AL
EM5209040	Julius Johnson	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I208998	Nicholas Bowie	Pacific Signal University	Scott B Teder	Ft Stewart GA
EM5209763	Keith Laird	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL	F0I209193	Eliot Braddy	Light Brigade	Michael R Wilder	Geneva IL
EM5209115	Leroy Lee	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209210	Jaime Brayan	Light Brigade	Albon E Gilbert	Mobile AL
EM5209022	Ronald Marshall	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I209946	William Brink	Light Brigade	Mark P Kazes	Lowell MA
EM5209294	Evans Martin	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	F0I209456	Tavarius Brinson	ETA International	George G Franceschi	National City CA
EM5209062	Jimmy McCracken	Veterans Assembled electronics	Harry L Adams	Fayetteville NC	F0I209008	Griffin Brockus	Pacific Signal University	Scott B Teder	Ft Stewart GA
EM5210521	Geremy McCray	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	F0I209381	Bradley Brown	Light Brigade	Sean M Sheedy	Roseville CA
EM5209039	Dayanna Medina	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL Miami FL	F0I210339	Eric Brown Jacob Brown	APT College	Debra J Cruickshank Phil J Shoemaker	Sacramento CA Hobbs NM
EM5209116 EM5209928	Christopher Navarro Donald Nicholson	George T Baker Aviation Tech Coll Veterans Assembled electronics	Howard Carter Jr Clyde J Dolly	Melbourne FL	F0I209221 F0I209072	Travis Bruno-Erck	Light Brigade Indian Hills Community College	James J Goudy	Outtumwa IA
EM5209928	Anthony Oropesa	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209072 F0I209913	Taiwonna Bryant	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
EM5209045	Christian Otanez	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209723	Abel Burgos	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait
EM5209020	Rose Parker	Veterans Assembled electronics	Robert C Berlin Jr	Orlando FL	F0I210341	Shawn Burnett	APT College	Debra J Cruickshank	Sacramento CA
EM5209779	Michael Payne	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I210414	Chrystin Bush	KITCO Fiber Optics	Felipe Guadalupe	Virginia Beach VA
EM5209481	Jean Caleb Phanord	Veterans Assembled Electronics	John T Young	Framingingham MA	F0I210324	Scott Canny	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
EM5209629	Jonathan Ramirez	Veterans Assembled electronics	Francisco A Sablan	Belleview FL	F0I210495	Javier Carballosa	Light Brigade	John C Dron	Orlando FL
EM5209114	Daniel Rincon	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209703	Jason Carr	Light Brigade	Mark P Kazes	Melbourne FL
EM5209109	Alvaro Rodriguez	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I210343	Trevor Carranza	APT College	Debra J Cruickshank	Sacramento CA
EM5209282	Frank Ruiz	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I209094	Luis Carrasquillo	Pacific Signal University	Scott B Teder	Ft Stewart GA
EM5210191	M Ruiz-Aponte	Veterans Assembled electronics	Clyde J Dolly	Melbourne FL	F0I209724	James Carter	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait
EM5209776	Dana Scott	FCI Ray Brook	Matthew C Russell	Ray Brook NY	F0I210443	Enrique Casillas	Light Brigade	Robert E Dorian	El Paso TX
EM5209696	Bradley Sweeney	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT	F0I209455	Zachary Cawthorne	ETA International	George G Franceschi	National City CA
EM5210523	Luis Torres-Pacheco	Veterans Assembled electronics	Michael S Hagedorn	Orlando FL	F0I209843	Carlos Cedano	Courage University, G6, I Corps	Jason Brumet	Ft Lewis WA
EM5209101	Narrio Walks	George T Baker Aviation Tech Coll	Howard Carter Jr	Miami FL	F0I210388	Chee Meng Chong	FiberOpto Asia	Boon Kwee Thiam	Singapore
EM5209014	Adam Ward	Paul Fields	Paul S Fields Jr	Ft Wainwright AK	F0I209909	Lorin Chun	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
EM5210001	Kenneth White	FCI Ray Brook	Matthew C Russell	Ray Brook NY	F0I210368	Caleb Clark	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
Flactron	ics Security No	etworking Technician	(FSNT)		F0I209400	Nathan Clark	Light Brigade	Sean M Sheedy	Seattle WA
ESNT209660	Jeff Burger	Slayton Solutions	David J Engebretson	Chicago IL	F0I209206 F0I209922	Caleb Cody Darren Colona	Light Brigade Fort Hood Signal University	Albon E Gilbert Jeffrey M Jones	Mobile AL Ft Hood TX
ESNT209661	Brian Craig	Slayton Solutions	David J Engebretson	Chicago IL	F0I210451	Victor Conde	OEMTD	Robert E Evans	Ft Gordon GA
ESNT209662	Phillip Dallas	Slayton Solutions	David J Engebretson	Chicago IL	F0I210431 F0I209390	Travis Cook	Light Brigade	Mark P Kazes	Richmond VA
ESNT209663	Brian Dombrowski	Slayton Solutions	David J Engebretson	Chicago IL	F0I210560	Brandon Cooper	OEMTD	Robert E Evans	Ft Gordon GA
ESNT209664	Justin Gazouski	Slayton Solutions	David J Engebretson	Chicago IL	F0I208856	Kevin Cooper	TX Engineering Extension Srvc	Joe D Smith	College Station TX
ESNT209665	Jason Hilton	Slayton Solutions	David J Engebretson	Chicago IL	F0I210419	Robert Cooper	SENU	Jacob A Atkins	Ft Campbell KY
ESNT209666	Wesley Junis	Slayton Solutions	David J Engebretson	Chicago IL	F0I209508	Jose Cortez	Iron Horse Signal University	John P Enos	Ft Polk LA
ESNT209667	Christopher Konrady	Slayton Solutions	David J Engebretson	Chicago IL	F0I209580	Gary Cox	Light Brigade	Mark P Kazes	Richmond VA
ESNT209668	Sam MacLeod	Slayton Solutions	David J Engebretson	Chicago IL	F0I209855	Steven Cross	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA
ESNT209669	Matthew Poling	Slayton Solutions	David J Engebretson	Chicago IL	F0I209123	Debra Cruickshank	APT College	Ardeshir Daneshmand	Sacramento CA
ESNT209671	Scott Zylstra	Slayton Solutions	David J Engebretson	Chicago IL	F0I210035	Mathew Daniels	SENU	Jacob A Atkins	Ft Campbell KY
					F0I209736	Darell Davis	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait
Fiber Op	tics Designer	(FUD)			F0I209902	Markus Dawson	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
F0D209785	John Eckert	Infotec	Charles E Casbeer Jr	Virginia Beach VA	F0I209001	Alexander Debrah	Pacific Signal University	Scott B Teder	Ft Stewart GA
F0D209786	Brack Johnson	Infotec	Charles E Casbeer Jr	Virginia Beach VA	F0I209515	Jean Delgado Gonzalez	Iron Horse Signal University	John P Enos	Ft Polk LA
F0D210501	Amanda McSween	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI	F0I210258	Trent DeMaria	Light Brigade	John C Dron	Baton Rouge LA
F0D210500	Roger Williams	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI	F0I209074	Reece Denniston	Indian Hills Community College	James J Goudy	Outtumwa IA
Fiber O-	tion Installer /	FOIN			F0I209920	Pedro Diaz	Fort Hood Signal University	Jeffrey M Jones	Ft Hood TX
	tics Installer (F0I209046	Michael Downs	364 TRS/TTKMS	Henry Yates III	Sheppard AFB TX
F0I209851	Andrea Adams	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0I209682	Ryan Dressel	364 TRS/TTKMS	Steven G, Baker	Sheppard TX
F0I209377	Anteneh Afework	Light Brigade	Cameron L Karch	Alexandria VA	F0I209442	James Driskell	ECPI University	Norman D Blackburn	Greensboro NC
F0I208413	Brett Albertson	High Tech Regional Training Site	Carmelo Bezares	Sacramento CA	F0I209207	Courtney Dubose	Light Brigade	Albon E Gilbert	Mobile AL
F0I209705	Oliver Alcantara	Light Brigade	Mark P Kazes	Melbourne FL	F0I210257	Michael Duet	Light Brigade	John C Dron	Baton Rouge LA
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CERT. #	NAME	SCHOOL	PROCTOR	LOCATION	CERT. #	NAME	SCHOOL	PROCTOR	LOCATION
F0I209848	Lee Eastham	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0I210563	Christian Marin	OEMTD	Robert E Evans	Ft Gordon GA
F0I209512	Sonya Echols	Iron Horse Signal University	John P Enos	Ft Polk LA	F0I209908	F Martinez Juan	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
F0I209379	Lawrence Edmonds	Light Brigade	Cameron L Karch	Alexandria VA	F0I210425	Mark Mason	Light Brigade	Sean M Sheedy	Colorado Springs CO
F0I209944	Martin Elliott	Light Brigade	Mark P Kazes	Lowell MA	F0I209738	David Matrazzo	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait
F0I209510	Ryan Ellis	Iron Horse Signal University	John P Enos	Ft Polk LA	F0I209384	Shane Mattix	Light Brigade	Sean M Sheedy	Roseville CA
F0I209222	Greg Faulkner	Light Brigade	Phil J Shoemaker	Hobbs NM	F0I209939	John McCormack	Light Brigade	Mark P Kazes	Lowell MA
F0I209852	Siaosi Fehoko	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0I210196	Brandon McCracken	364 TRS/TTKMS	Henry Yates III	Sheppark AFB TX
F0I209208	Eric Ferguson	Light Brigade	Albon E Gilbert	Mobile Al	F0I209727	De'Quan McFadden	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait
F0I210345	Todd Ferguson	APT College	Debra J Cruickshank	Sacramento CA	F0I209712	Kenny McGill	Light Brigade	Mark P Kazes	Anaheim CA
F0I209725	kevin Figueiredo	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait	F0I209409	Sean McIlvenna	Light Brigade	Sean M Sheedy	Seattle WA
F0I210360	Ramon Fileto	APT College	Francis B Reyes	Hollister CA	F0I209739	Tiani McIntyre	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait
F0I210430	Dustin Fisher	Light Brigade	Sean M Sheedy	Colorado Springs CO	F0I209713	Ryan McKellar	Light Brigade	Mark P Kazes	Anaheim CA
F0I209943	James Fitzemeyer	Light Brigade	Mark P Kazes	Lowell MA	F0I209513	Asheton McKoy	Iron Horse Signal University	John P Enos	Ft Polk LA
F0I210348	Jeffrey Flanagan	APT College	Debra J Cruickshank	Sacramento CA	F0I209211	Nicholas McLin	Light Brigade	Albon E Gilbert	Mobile AL
F0I209401	Raymond Fleming	Light Brigade	Sean M Sheedy	Seattle WA	F0I209915	Lindsay McMall	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
F0I209709	Terence Foisia	Light Brigade	Mark P Kazes	Anaheim CA	F0I210565	Jason Meyer	OEMTD	Robert E Evans	Ft Gordon GA
F0I209737	Eliezer Foster	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait	F0I209212	Jeffry Michaelson	Light Brigade	Albon E Gilbert	Mobile AL
F0I210429	James Frison	Light Brigade	Sean M Sheedy	Colorado Springs CO	F0I209505	Marcus Miller	Iron Horse Signal University	John P Enos	Ft Polk LA
F0I209007	James Fulkerson	Pacific Signal University	Scott B Teder	Ft Stewart GA	F0I209676	Timothy Mitchell	ECPI University	Norman D Blackburn	Greensboro NC
F0I210256	David Gaines	Light Brigade	John C Dron	Baton Rouge LA	F0I209453	Tara Montgomery	ETA International	George G Franceschi	National City CA
F0I209845	Jeremy Gaithe	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0I209917	Matthew Moody	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI
F0I209900	Miguel Gallegos	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI	F0I209728	Tiesha Moore	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait
F0I210416	Spencer Gallup	KITCO Fiber Optics	Felipe Guadalupe	Virginia Beach VA	F0I209935	Joseph Morse	Light Brigade	Mark P Kazes	Lowell MA
F0I209223	Kendall Galyean	Light Brigade	Phil J Shoemaker	Hobbs NM	F0I210251	Paul Mulligan	Light Brigade	John C Dron	Baton Rouge LA
F0I210454	Eulojio Garcia	OEMTD	Robert E Evans	Ft Gordon GA	F0I209410	Aleksandr Nazarchuk	Light Brigade	Sean M Sheedy	Seattle WA
F0I209403	Hugo Garcia	Light Brigade	Sean M Sheedy	Seattle WA	F0I209936	Lora Neis	Light Brigade	Mark P Kazes	Lowell MA
F0I209404	Niko Garcia	Light Brigade	Sean M Sheedy	Seattle WA	F0I210187	Jacob Neisendorf	364 TRS/TTKMS	Henry Yates III	Sheppard AFB TX
F0I209281	Clevon Gaspar	OEMTD	Robert E Evans	Ft Gordon GA	F0I209385	Jason Nelson	Light Brigade	Sean M Sheedy	Roseville CA
F0I210271	Janina GieLata	Light Brigade	Phil J Shoemaker	San Antonio TX	F0I209937	Michael Netzer	Light Brigade	Mark P Kazes	Lowell MA
F0I209378	Sean Golden	Light Brigade	Cameron L Karch	Alexandria VA	F0I209740	Michael Nichols	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait
F0I208994	Justin Gonzalez	Pacific Signal University	Scott B Teder	Ft Stewart GA	F0I210369	Samuel Nielsen	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
F0I210439	Josh Goodson	Light Brigade	Mark P Kazes	Spartanburg SC	F0I209444	Blamon Nimely	ECPI University	Norman D Blackburn	Greensboro NC
F0I209847	Jacquelyn Grandberry	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0I210458	Larry Nunez	OEMTD	Robert E Evans	Ft Gordon GA
F0I210438	James Green	Light Brigade	Mark P Kazes	Spartanburg SC	F0I210250	Derrick Odds	Light Brigade	John C Dron	Baton Rouge LA
F0I208997	James Grimm	Pacific Signal University	Scott B Teder	Ft Stewart GA	F0I210358	Deidrick Odom	Apex Optics Inc	Greyson O Knapp	Houston TX
F0I209000	John Guadarrama	Pacific Signal University	Scott B Teder	Ft Stewart GA	F0I209921	Rumon O'Gorman	Fort Hood Signal University	Jeffrey M Jones	Ft Hood TX
F0I209726	Jon Guana Bermeo	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait	F0I209386	Jade Oliver	Light Brigade	Sean M Sheedy	Roseville CA
F0I210456	Gregory Gusler	OEMTD	Robert E Evans	Ft Gordon GA	F0I209853	Omar Olvera	Courage University, G6, I Corps	Jason L Brumet	JBLM WA
F0I209405	Oakley Hackleman	Light Brigade	Sean M Sheedy	Seattle WA	F0I209005	Griffin O'Neil	Pacific Signal University	Scott B Teder	Ft Stewart GA
F0I209391	Josh Hamilton	Light Brigade	Mark P Kazes	Richmond VA	F0I209195	Daniel Ortiz	Light Brigade	Michael R Wilder	Geneva IL
F0I209209	David Hancox	Light Brigade	Albon E Gilbert	Mobile AL	F0I209047	Jordan Overby	364 TRS/TTKMS	Henry Yates III	Sheppard AFB TX
F0I209449	Cassandra Hartline	ECPI University	Norman D Blackburn	Greensboro NC	F0I209923	Najee Overton	Fort Hood Signal University	Jeffrey M Jones	Ft Hood TX
F0I210325	Ashley Hartman	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0I210326	Sunny Park	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
F0I209850	Keith Hathorn	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0I209714	Greg Parks	Light Brigade	Mark P Kazes	Anaheim CA
F0I209683	Anthony Hawkins	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0I209729	Anthony Pascual	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait
F0I209507	Christopher Hayes	Iron Horse Signal University	John P Enos	Ft Polk LA	F0I209411	Lyndsay Pelchat	Light Brigade	Sean M Sheedy	Seattle WA
F0I209392	Nicholas Heaton	Light Brigade	Mark P Kazes	Richmond VA	F0I209448	Bradley Perdue	ECPI University	Norman D Blackburn	Greensboro NC
F0I210255	Robert Hebert	Light Brigade	John C Dron	Baton Rouge LA	F0I209718	James Perry	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait
F0I209898	Jeremy Heinz	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0I210329	Malcolm Perry	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX
F0I210437	Donald Heinze	Light Brigade	Mark P Kazes	Spartanburg SC	F0I209451	Christopher Phillips	ECPI University	Norman D Blackburn	Greensboro NC
F0I210270	Matthew Hernandez	Light Brigade	Phil J Shoemaker	San Antonio TX	F0I210288	Marcus Phillips	SENU	Jacob A Atkins	Ft Campbell KY
F0I210266	David Herrera	Light Brigade	Phil J Shoemaker	San Antonio TX	F0I209919	Demarcus Prater	Fort Hood Signal University	Jeffrey M Jones	Fort Hood TX
F0I209910	Dustin Hess	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI	F0I210033	Austin Prenzlin	SENU	Jacob A Atkins	Ft Campbell KY
F0I209376	Olufemi Hickson	Light Brigade	Cameron L Karch	Alexandria VA					
F0I209224	Kaiden Hinajos				F0I209125	Bashar Qopi	APT College	Ardeshir Daneshmand	San Diego CA
F0I209393	Charres Haffman	Light Brigade	Phil J Shoemaker	Hobbs NM	F0I209125 F0I210435	Bashar Qopi Jeffrey Radford	APT College Light Brigade	Ardeshir Daneshmand Mark P Kazes	San Diego CA Spartanburg SC
F0I209382	Steven Hoffman	Light Brigade Light Brigade		Hobbs NM Richmond VA					
FUIZUSSOZ	Brandon Holderby		Phil J Shoemaker		F0I210435	Jeffrey Radford	Light Brigade	Mark P Kazes	Spartanburg SC
F0I209362		Light Brigade	Phil J Shoemaker Mark P Kazes	Richmond VA	F0I210435 F0I209730	Jeffrey Radford Kevin Rainer	Light Brigade US Army CECOM	Mark P Kazes Joshua M Jackson	Spartanburg SC Camp Buehring Kuwait Hobbs NM
	Brandon Holderby	Light Brigade Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy	Richmond VA Roseville CA	F0I210435 F0I209730 F0I209228	Jeffrey Radford Kevin Rainer Dominique Ramirez	Light Brigade US Army CECOM Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker	Spartanburg SC Camp Buehring Kuwait
F0I209445	Brandon Holderby Teruance Holmes	Light Brigade Light Brigade ECPI University	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn	Richmond VA Roseville CA Greensboro NC	F0I210435 F0I209730 F0I209228 F0I210370	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX
F01209445 F01209942	Brandon Holderby Teruance Holmes Michael Horn	Light Brigade Light Brigade ECPI University Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes	Richmond VA Roseville CA Greensboro NC Lowell MA	F0I210435 F0I209730 F0I209228 F0I210370 F0I210413	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA
F0I209445 F0I209942 F0I209308	Brandon Holderby Teruance Holmes Michael Horn MD Hossen	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore	F0I210435 F0I209730 F0I209228 F0I210370 F0I210413 F0I210389	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore
F01209445 F01209942 F01209308 F01209383	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA	F0I210435 F0I209730 F0I209228 F0I210370 F0I210413 F0I210389 F0I209412	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed	Light Brigade US Army CECOM Light Brigade 364 TRS/TKMS MITCO Fiber Optics FiberOpto Asia Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA
F0I209445 F0I209942 F0I209308 F0I209383 F0I210254	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes	Light Brigade Light Brigade CCPI University Light Brigade FiberOpto Asia Light Brigade Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA Baton Rouge LA	F01210435 F01209730 F01209228 F01210370 F01210413 F01210389 F01209412 F01210268	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade Light Brigade Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX
F0I209445 F0I209942 F0I209308 F0I209383 F0I210254 F0I210427	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA Baton Rouge LA Colorado Springs CO	F0I210435 F0I209730 F0I209228 F0I210370 F0I210413 F0I210389 F0I209412 F0I210268 F0I209715	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS NITCO Fiber Optics FiberOpto Asia Light Brigade Light Brigade Light Brigade Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA
F01209445 F01209942 F01209308 F01209383 F01210254 F01210427 F01209194	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder	Richmond VA Roseville CA Greensborn NC Lowell MA Singapore Roseville CA Baton Rouge LA Colorado Springs CO Geneva IL	F0I210435 F0I209730 F0I209228 F0I210370 F0I210413 F0I210389 F0I209412 F0I210268 F0I209715 F0I209938	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA
F0I209445 F0I209942 F0I209308 F0I209383 F0I210254 F0I210427 F0I209194 F0I209710	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA	F01210435 F01209730 F01209228 F01210370 F01210413 F01210389 F01209412 F01210268 F01209715 F012099938 F01210038	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolin Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice	Light Brigade US Army CECOM Light Brigade JS4 TRS/TIKMS KITCO Fiber Optics FiberOpto Asia Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade FibertOptic.com	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV
F0I209445 F0I209942 F0I209308 F0I209383 F0I210254 F0I210427 F0I209194 F0I209710 F0I209516	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson James Jones	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade Iron Horse Signal University	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA Ft Polk LA	F01210435 F01209730 F01209228 F01210370 F01210413 F01210389 F01209412 F01210268 F01209715 F01209938 F01210038 F01210038	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL
F0I209445 F0I209942 F0I209308 F0I209383 F0I210254 F0I210427 F0I209194 F0I209710 F0I209516 F0I209925	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson James Jones Aminata Kamara	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones	Richmond VA Rossville CA Greensboro NC Lowell MA Singapore Rossville CA Baton Rouge LA Colorado Springs CO Geneva IL Anahelim CA Ft Polik LA Ft Hood TX	F0/210435 F0/209730 F0/209228 F0/210370 F0/210413 F0/210489 F0/209412 F0/210268 F0/209715 F0/209938 F0/210496 F0/209006	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richard	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade Pacific Signal University	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron Scott B Teder	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL Ft Stewart GA
F0I209445 F0I209942 F0I209308 F0I209383 F0I210254 F0I210427 F0I209194 F0I209710 F0I209916 F0I209925 F0I210426	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson James Jones Aminata Kamara Shane Kau	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade Iron Horse Signal University Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones Sean M Sheedy	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA Ft Polk LA Ft Hood TX Colorado Springs CO	F0/210435 F0/209730 F0/209228 F0/210370 F0/210413 F0/210389 F0/209412 F0/210268 F0/209715 F0/209938 F0/210038 F0/210496 F0/209006 F0/210424	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richard Scott Richard	Light Brigade US Army CECOM Light Brigade 364 TRS/TTIMIS KITCO Fiber Optics FiberOpto Asia Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Gameron John C Dron Scott B Teder Sean M Sheedy	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA Santonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL Ft Stewart GA Colorado Springs CO
F0I209445 F0I209342 F0I209308 F0I209383 F0I210254 F0I210427 F0I209194 F0I209710 F0I209516 F0I209925 F0I210426 F0I209941	Brandon Holderby Feruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson James Jones Aminata Kamara Shane Kau Daniel Kelleher	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones Sean M Sheedy Mark P Kazes	Richmond VA Roseville CA Greensboro NC Lowell MA Singapore Roseville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA FF Polk LA FH Hood TX Colorado Springs CO Lowell MA	F0/210435 F0/209730 F0/209228 F0/210370 F0/2104133 F0/21049 F0/209412 F0/210268 F0/209715 F0/209038 F0/210496 F0/209006 F0/210494 F0/210267	Jeffrey Radford Kevin Rainer Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richardson Zachary Richardson	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade FibertOptic.com Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron Scott B Teder Sean M Sheedy Phil J Shoemaker	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL FI Stewart GA Colorado Springs CO San Antonio TX
F01209445 F0120942 F01209308 F01209383 F01210254 F01210427 F01209194 F01209710 F01209516 F01209925 F01210426 F01209941 F01209002	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson James Jones Aminata Kamara Shane Kau Daniel Kelleher Sierra Kennedy	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade Iron Horse Signal University Fort Hood Signal University Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade Pacific Signal University	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones Sean M Sheedy Mark P Kazes Scott B Teder	Richmond VA Rossville CA Greensboro NC Lowell MA Singapore Rossville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA Ft Polk LA Ft Hood TX Colorado Springs CO Lowell MA Ft Stewart GA	F0/210435 F0/209730 F0/209228 F0/210370 F0/210413 F0/210389 F0/209412 F0/210268 F0/209715 F0/20938 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210499	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratiiff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richard Scott Richardson Zachary Richardson Lance Ridenour	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron Scott B Teder Sean M Sheedy Phil J Shoemaker Michael R Wilder John C Dron Albon E Gilbert	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL Ft Stewart GA Colorado Springs CO San Antonio TX Geneva IL
F01209445 F01209942 F01209308 F01209383 F01210254 F01210427 F01209194 F01209710 F01209951 F01209925 F01210426 F01209002 F01209002 F01208954	Brandon Holderby Feruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Hussain Jamie Johnson James Jones Aminata Kamara Shane Kau Daniel Kelleher Sierra Kennedy Duluan King	Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones Sean M Sheedy Mark P Kazes Scott B Teder Kenneth Rivera	Richmond VA Rossville CA Greensboro NC Lowell MA Singapore Rossville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA Ft Polk LA Ft Hood TX Colorado Springs CO Lowell MA Ft Stewart GA Chino CA	F0/210435 F0/209730 F0/209228 F0/210370 F0/210413 F0/210489 F0/209412 F0/210268 F0/209715 F0/209938 F0/210496 F0/210424 F0/210267 F0/209006 F0/210424 F0/210267 F0/2090195 F0/210253	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richard Soott Richardson Lance Ridenour Albert Riley	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade Jight Brigade Pacific Signal University Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron Scott B Teder Sean M Sheedy Phil J Shoemaker Michael R Wilder John C Dron Albon E Gilbert Phil J Shoemaker	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL Ft Stewart GA Colorado Springs CO San Antonio TX Geneva IL Baton Rouge LA
F01209445 F0120942 F01209308 F01209383 F01210254 F01210427 F01209194 F01209516 F01209925 F01210426 F01209941 F01209002 F01208954 F01209940 F01209406	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Husain Jamie Johnson James Jones Aminata Kamara Shane Kau Daniel Kelleher Sierra Kennedy Duluan King CJ Kisslan	Light Brigade Light Brigade Light Brigade ECPI University Light Brigade FiberOpto Asia Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones Sean M Sheedy Mark P Kazes Scott B Teder Kenneth Rivera Phil J Shoemaker Mark P Kazes Sean M Sheedy	Richmond VA Rossville CA Greensboro NC Lowell MA Singapore Rossville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA Ft Polk LA Ft Hood TX Colorado Springs CO Lowell MA Ft Stewart GA Chino CA Hobbs NM Lowell MA Seattle WA	F0/210435 F0/209730 F0/209738 F0/209738 F0/210370 F0/210413 F0/210389 F0/209412 F0/210268 F0/209715 F0/209938 F0/210498 F0/210496 F0/210496 F0/209906 F0/210424 F0/210425 F0/209196 F0/210253 F0/209196 F0/210253 F0/209213 F0/209281	Jeffrey Radford Kevin Rainer Dominique Ramirez Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richard Scott Richardson Lance Ridenour Albert Riley Michael Ritchie Andres Rivera Patricia Rivera	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS NITCO Fiber Optics FiberOpto Asia Light Brigade	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron Scott B Teder Sean M Sheedy Phil J Shoemaker Michael R Wilder John C Dron Albon E Gilbert Phil J Shoemaker Steven G Baker	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL Ft Stewart GA Colorado Springs CO San Antonio TX Geneva IL Baton Rouge LA Mobile AL Hobbs NM Sheppard AFB TX
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F01209445 F0120942 F01209308 F01209308 F01209383 F01210254 F01210427 F01209194 F01209910 F01209911 F01209925 F01210426 F01209941 F01209940 F01209940 F01209940 F01209940 F01209917 F01209917 F01209917 F01209917 F01209058 F0120917 F0120907	Brandon Holderby Teruance Holmes Michael Horn MD Hossen Jason Houser Brad Hughes William Hughes Mohammed Husain Jamie Johnson James Jones Aminata Kamara Shane Kau Daniel Kelleher Sierra Kennedy CJ Kisslan Daniel Landry Stan Latham Kyle Lewandowski Thor Libkie William Lim Kyle Lindsey Jacob Lidoyd Irving Lopez Luis Lopez Adam Luft Joe Mace Brian Macias	Light Brigade Light Brigade Light Brigade FiberOpto Asia Light Brigade Iron Horse Signal University Fort Hood Signal University Light Brigade Pacific Signal University Light Brigade Pacific Signal University JM Fiber Optics Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade Light Brigade Fort Hood Signal University Light Brigade Fort Hood Signal University Light Brigade Fort Roof Signal University Light Brigade Fort Roof Signal University Light Brigade FiberOpto Asia 364 TRS/TTKMS US Army - CECOM Light Brigade Pacific Signal University SENU Light Brigade	Phil J Shoemaker Mark P Kazes Sean M Sheedy Norman D Blackburn Mark P Kazes Boon Kwee Thiam Sean M Sheedy John C Dron Sean M Sheedy John C Dron Sean M Sheedy Michael R Wilder Mark P Kazes John P Enos Jeffrey M Jones Sean M Sheedy Mark P Kazes Scott B Teder Kenneth Rivera Phil J Shoemaker Mark P Kazes Sean M Sheedy Chad A Kelly Phil J Shoemaker Boon Kwee Thiam Steven G Baker Joshua M Jackson Phil J Shoemaker Scott B Teder Scott B Teder Joshua M Jackson Phil J Shoemaker Scott B Teder Scott B Teder Jacob A Atkins Sean M Sheedy Nickoli O Kjos	Richmond VA Rossville CA Greensboro NC Lowell MA Singapore Rossville CA Baton Rouge LA Colorado Springs CO Geneva IL Anaheim CA Ft Hood TX Colorado Springs CO Lowell MA Ft Stewart GA Chino CA Hobbs NM Lowell MA Seattle WA Schofield Bks HI Dobbs MM Singapore Sheppard AFB TX Camp Arifjan Kuwait Hobbs NM Ft Stewart GA Chino CA Ft Campbell KY Scambell KY Seattle WA Walnut Creek CA	F0/210435 F0/209730 F0/209738 F0/20928 F0/210370 F0/210413 F0/210389 F0/209412 F0/210268 F0/209715 F0/20938 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210496 F0/210497 F0/210267 F0/209196 F0/210267 F0/209197 F0/209313 F0/209229 F0/209313 F0/209231 F0/209337 F0/209337 F0/209337 F0/209337 F0/209387 F0/209387 F0/209305	Jeffrey Radford Kevin Rainer Jonathon Ramseur Sonya Ratliff Darmaraj Ravi Kumar Malcolm Reed Peyton Reese Christopher Reeve Matthew Reynolds Kevin Rice Landon Rich Steven Richard Scott Richardson Lance Ridenour Albert Riley Michael Ritchie Andres Rivera Tom Roberson Ryan Roberts Dana Robinson Keneth Robinson Keneth Robinson Keneth Rodriguez Emiliano Rodriguez	Light Brigade US Army CECOM Light Brigade 364 TRS/TTKMS KITCO Fiber Optics FiberOpto Asia Light Brigade Light Brig	Mark P Kazes Joshua M Jackson Phil J Shoemaker Steven G Baker Felipe Guadalupe Boon Kwee Thiam Sean M Sheedy Phil J Shoemaker Mark P Kazes Mark P Kazes David J Cameron John C Dron Scott B Teder Sean M Sheedy Phil J Shoemaker Michael R Wilder John C Dron Albon E Gilbert Phil J Shoemaker Steven G Baker Mark P Kazes Joshua M Jackson John C Dron Michael R Wilder Mark P Kazes Sean M Sheedy Michael R Wilder Mark P Kazes Sean M Sheedy Michael R Wilder Mark P Kazes Sean M Sheedy Michael R Wilder Mark P Kazes Henry Yates III Chad A Kelley	Spartanburg SC Camp Buehring Kuwait Hobbs NM Sheppard AFB TX Virginia Beach VA Singapore Seattle WA San Antonio TX Anaheim CA Lowell MA Las Vegas NV Orlando FL Ft Stewart GA Colorado Springs CO San Antonio TX Geneva IL Baton Rouge LA Mobile AL Hobbs NM Sheppard AFB TX Spartanburg SC Camp Buehring Kuwait Baton Rouge LA Richmond VA Roseville CA Geneve IL Anaheim CA Sheppard AFB TX Schofield Bks HI

ETA CERTIFIED TECHNICIANS The following is a list of professionals who have earned new certifications between June 1 and July 31, 2018 under one or more of ETA International's 80+ certification programs. Names of these highly qualified technicians have earned ETA's formal endorsement and approval.

CERT. #	NAME	SCHOOL	PROCTOR	LOCATION	CERT. #	NAME	SCHOOL	PROCTOR	LOCATION
F0I209214	Wyndol Ryer	Light Brigade	Albon E Gilbert	Mobile AL	F0SP209961	Jonathan Demers	Light Brigade	John C Dron	Denver CO
F0I209733	Cerone Samuel	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait	F0SP210203	Jon DiBartolomeo	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I208993 F0I209684	Dwayne Sanders	Pacific Signal University 364 TRS/TTKMS	Scott B Teder	Ft Stewart GA Sheppard AFB TX	F0SP210459	Kenson Dublin	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209741	Jean Sanjurjo Cruz Eric Santos	US Army - CECOM	Steven G Baker Joshua M Jackson	Camp Arifjan Kuwait	F0SP209358	David Ellington	Light Brigade	Sean M Sheedy	Washington DC
F0I210433	Philip Schefferine	Light Brigade	Mark P Kazes	Spartanburg SC	F0SP209364	Nicholas Estes	Light Brigade	Sean M Sheedy	Washington DC
F0I209742	Joshua Schiebel-Sales	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait	F0SP209960	Cameron Feagle	Light Brigade	John C Dron	Denver CO
F0I210371	Lechance Seaberry	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0SP210301	Gabriel Ferguson	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209734	Kedra Segler	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait	F0SP210054	Dan Fitzgerald	Light Brigade	John C Dron	Denver CO
F0I209458	Paola Serrano	ETA International	George G Franceschi	National City CA	F0SP210461	Ashwood Forbes	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209215	John Shirley	Light Brigade	Albon E Gilbert	Mobile AL1	F0SP209186	Michael Garcia	Light Brigade	John C Dron	Louisville KY
F0I209230	Alexandro Sias	Light Brigade	Phil J Shoemaker	Hobbs NM	F0SP209956	Matt Garland	Light Brigade	John C Dron	Denver CO
F0I210457	Wyatt Siegrist	OEMTD	Robert E Evans	Ft Gordon GA	F0SP209994	Cynthia George	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I210432	Donald Silas	Light Brigade	Mark P Kazes	Spartanburg SC	F0SP209706	Jason Gideon	Light Brigade	Phil J Shoemaker	Belize City Belize
F0I210247	Marty Simmons	Light Brigade	John C Dron	Baton Rouge LA	F0SP209357	Michael Grimes	Light Brigade	Sean M Sheedy	Washington DC
F0I209719	Brion Smalling	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait	F0SP209955	Lucas Hill	Light Brigade	John C Dron	Denver CO
F0I209911	Alicia Smith	Fort Hood Signal University	Chad A Kelly	Schofield Bk HI	F0SP209188	Eugene Hostetter	Light Brigade	John C Dron	Louisville KY
F0I209231	Nathan Smith	Light Brigade	Phil J Shoemaker	Hobbs NM	F0SP209366	Taylor Hovermale	Light Brigade	Sean M Sheedy	Washington DC
F0I209395	Robert Smith	Light Brigade	Mark P Kazes	Richmond VA	F0SP210214	Robert Huber	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I209388	Jeremy Snyder	Light Brigade	Sean M Sheedy	Roseville CA	F0SP209361	Joshua Joyner	Light Brigade	Sean M Sheedy	Washington DC
F0I209506	Colin Sparks	Iron Horse Signal University	John P Enos	Ft Polk LA	F0SP209190	Jeremy Kilpatrick	Light Brigade	John C Dron	Louisville KY
F0I210190 F0I210497	Samuel Stahl	364 TRS/TTKMS	Henry Yates III John C Dron	Sheppard AFB TX Orlando FL	F0SP209953	Carl Koenig	Light Brigade	John C Dron	Denver CO
F0I210457	Brittany Stainrod Shane Stevens	Light Brigade ETA International	George G Franceschi	National City CA	F0SP210300	Cody La Caille	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209057	Tyler Stevens	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0SP210213	Roland LaCompte	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I209216	Christopher Stockton	Light Brigade	Albon E Gilbert	Mobile AL	F0SP210200	Michael Leblanc	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I209849	Curtis Suber	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0SP210197	Rodney Lucero	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I210289	Steven Suchocki	SENU	Jacob A Atkins	Ft Campbell KY	F0SP209952	Ryan Martin	Light Brigade	John C Dron	Denver CO
F0I210352	Patrick Suhr	APT College	Debra J Cruickshank	Sacramento CA	F0SP210502	Amanda McCarthy	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209413	Gavin Swayne	Light Brigade	Sean M Sheedy	Seattle WA	F0SP210199	Bruce Mues	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I209774	Joseph Swe	364 TRS/TTKMS	Robert A Poole	Sheppard AFB TX	F0SP209365	Wesley Olinger	Light Brigade	Sean M Sheedy	Washington DC
F0I209907	Lee Sweeney	Fort Hood Signal University	Chad A Kelly	Schofield Bks HI	F0SP210198	John Parker	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I209389	Philip Sweet	Light Brigade	Sean M Sheedy	Roseville CA	F0SP210298	Alana Prabhoo	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209397	Jeffrey Sydenstricker	Light Brigade	Mark P Kazes	Richmond VA	F0SP210299	Anil Ragoonanan	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I209443	Ali Syed	ECPI University	Norman D Blackburn	Greensboro NC	F0SP209967	Ronald Ramirez	Light Brigade	John C Dron	San Diego CA
F0I209307	Abu Taleb	FiberOpto Asia	Boon Kwee Thiam	Singapore	F0SP210460	Dowaine Rodgers	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I210265	Humberto Tamez	Light Brigade	Phil J Shoemaker	San Antonio TX	F0SP209353	Neydin Rodriguez	Light Brigade	Sean M Sheedy	Washington DC
F0I209511	Donald Tatum	Iron Horse Signal University	John P Enos	Ft Polk LA	F0SP209360	Jose Saenz Fuerte	Light Brigade	Sean M Sheedy	Washington DC
F0I209685	Jancel Taverasgomez	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0SP210462	Arnold Salamanca	Advanced Solutions Technical Inst	Chrystal S Murray	Trinidad WI
F0I210247	Chad Taylor	Light Brigade	John C Dron	Baton Rouge LA	F0SP209965	John Saour	Light Brigade	John C Dron	San Diego CA
F0I209716	Jeff Taylor	Light Brigade	Mark P Kazes	Anaheim CA	F0SP210055	Cleavie Stuehrenberg	Light Brigade	John C Dron	Denver CO
F0I209367	Fesseha Tesfamichael	Light Brigade	Cameron L Karch Mark P Kazes	Alexandria VA	F0SP209966	Randy Totanes	Light Brigade	John C Dron	San Diego CA
F0I209398 F0I209912	Davis Theakston	Light Brigade		Richmond VA Schofield Bks HI	F0SP209964	Jason Traynum	Light Brigade	John C Dron	San Diego CA
F0I210423	Christopher Thomas Justin Thornton	Fort Hood Signal University Light Brigade	Chad A Kelly Sean M Sheedy	Colorado Springs CO	F0SP209951	Chris Underwood	Light Brigade	John C Dron	Denver CO
F0I209217	Tomaz Thornton	Light Brigade	Albon E Gilbert	Mobile AL	F0SP210202	Noel Valdez	Apex Optics Inc	Greyson O Knapp	Socorro NM
F0I210574	Michael Thrasher	OEMTD	Robert E Evans	Ft Gordon GA	F0SP209950	Mark Walters	Light Brigade	John C Dron	Denver CO
F0I210195	Gregory Tomassetti	364 TRS/TTKMS	Henry Yates III	Sheppard AFB TX	F0SP209949	Wayne Watts	Light Brigade	John C Dron	Denver CO
F0I210422	John Tompkins	Light Brigade	Sean M Sheedy	Colorado Springs CO	F0SP209355	Kristopher Williams	Light Brigade	Sean M Sheedy	Washington DC
F0I208995	Thomas Toomer	Pacific Signal University	Scott B Teder	Ft Stewart GA	F0SP209968	Jose Zermeno	Light Brigade	John C Dron	San Diego CA
F0I209688	Abran Torices	Light Brigade	Mark P Kazes	Anaheim CA	F0SP209963	Salvador Zermeno	Light Brigade	John C Dron	San Diego CA
F0I209232	Eric Valentin	Light Brigade	Phil J Shoemaker	Hobbs NM					
F0I209368	Phillip Vaughan	Light Brigade	Cameron L Karch	Alexandria VA	Fiber On	tics Technicia	n (FOT)		
F0I209309	Sakthivel Veeramuthu	FiberOpto Asia	Boon Kwee Thiam	Singapore	F0T210338	Victor Barajas	APT College	Debra J Cruickshank	Sacramento CA
F0I209450	Ronald Vido	ECPI University	Norman D Blackburn	Greensboro NC	F0T210340	Eric Brown	APT College	Debra J Cruickshank	Sacramento CA
F0I209233	Armando Villanueva	Light Brigade	Phil J Shoemaker	Hobbs NM	F0T210342	Shawn Burnett	APT College	Debra J Cruickshank	Sacramento CA
F0I209004	Hector Villanueva	Pacific Signal University	Scott B Teder	Ft Stewart GA	F0T210415	Chrystin Bush	KITCO Fiber Optics	Felipe Guadalupe	Virginia Beach VA
F0I201332	Jeremy Vohs	ETA International	Tyree Bearden	League City TX	F0T210344	Trevor Carranza	APT College	Debra J Cruickshank	Sacramento CA
F0I209735	Somsack Vongvirath	US Army - CECOM	Joshua M Jackson	Camp Buehring Kuwait	F0T209124	Debra Cruickshank	APT College	Ardeshir Daneshmand	Sacramento CA
F0I209509	Robert Voss	Iron Horse Signal University	John P Enos	Ft Polk LA	F0T210346	Todd Ferguson	APT College	Debra J Cruickshank	Sacramento CA
F0I210498	William Warkenthien	Light Brigade	John C Dron	Orlando FL	F0T210349	Jeffrey Flanagan	APT College	Debra J Cruickshank	Sacramento CA
F0I209897	Nicholas Waterman	364 TRS/TTKMS	Steven G Baker	Sheppard AFB TX	F0T210343	Spencer Gallup	KITCO Fiber Optics	Felipe Guadalupe	Virginia Beach VA
F0I209743	Robert Weeks	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait	F0T209200	Clevon Gaspar	OEMTD	Robert E Evans	Ft Gordon GA
F0I209680	Winston Wells Matthew Westergard	364 TRS/TTKMS Light Brigade	Steven G Baker	Sheppard AFB TX				Ardeshir Daneshmand	
F0I209414 F0I209854	Alexander White		Sean M Sheedy Jason L Brumet	Seattle WA	F0T209126	Bashar Qopi	APT College		San Diego CA
F0I209690	William Wiggin	Courage University, G6, I Corps Light Brigade	Mark P Kazes	Ft Lewis WA Anaheim CA	F0T210353	Patrick Suhr	APT College	Debra J Cruickshank	Sacremento CA
F0I209846	Leon Williams	Courage University, G6, I Corps	Jason L Brumet	Ft Lewis WA	F0T210174	Marcus Williams	The Splicer Lease School	Tywana Mason	Houston TX
F0I209976	Marcus Williams	The Splicer Lease School	Tawana Mason	Houston TX	F0T210356	Kong Yang	APT College	Debra J Cruickshank	Sacramento CA
F0I209446	Rashad Williams	ECPI University	Norman D Blackburn	Greensboro NC	Conoral	Communication	ons Technician (GCT1	1	
F0I210246	Andy Wilson	Light Brigade	John C Dron	Baton Rouge LA	GCT1210296	Michael Van Winkle	Stayton Public Library		Ctt OD
F0I209744	Patrick Wood	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait	GC11210290	MICHAEL VAIL WITKIE	Stayton Public Library	Stephanie Rubel	Stayton OR
F0I209218	Jonathan Woodall	Light Brigade	Albon E Gilbert	Mobile AL	GTR 800	0 P25 RF Site	Performance Verifica	tion (GSPV)	
F0I209720	Richard Woods	US Army - CECOM	Joshua M Jackson	Camp Arifjan Kuwait	GSPV209475	M Kaleem Uddin	Calgary Public Library	Alison Aberle	Calgary AB
F0I210355	Kong Yang	APT College	Debra J Cruickshank	Sacramento CA	d3i v203473	W Naiceill Oddill	Calgary I ublic Library	Alisuli Abelle	Galgaly AD
F0I210450	Dustin Yates	OEMTD	Robert E Evans	Ft Gordon GA	M Core T	echnician(MC	T)		
F0I210188	Austin Young	364 TRS/TTKMS	Henry Yates III	Sheppard AFB TX	MCT210466	Louis Kotler	Univ of Maryland-College Park	Megan Kuhn	College Park MD
F0I209514	Jonathan Young	Iron Horse Signal University	John P Enos	Ft Polk LA				0 100111	
F0I210499	Eugene Zigler	Light Brigade	John C Dron	Orlando FL	Network	Systems Tech	nician (NST)		
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F0SP209184	George Boileau	Light Brigade	John C Dron	Louisville KY	PVI1210397	M Akbariziyarani	Glendale Community College	Patrick Shahnazarian	Glendale CA
F0SP209352	Christopher Boyd	Light Brigade	Sean M Sheedy	Washington DC	PVI1210337	Arbi Begian	Glendale Community College	Patrick Shahnazarian	Glendale CA
F0SP209707	Risden Clare	Light Brigade	Phil J Shoemaker	Belize City Belize	PVI1210394 PVI1210018	Vesdell Bullard	Ohio State University- Ag Tech Inst	Frederick C Michel	Wooster OH
F0SP209962	Michael Cooper	Light Brigade	John C Dron	Denver CO	. 111210010	rosson bunalu	and orace authorated, uk teen tilgt	TOGOTION O INICIDE	11000(01 011

John C Dron

Denver CO

Light Brigade

Michael Cooper



CERT. #	NAME	SCHOOL	PROCTOR	LOCATIO
PVI1209519	Joseph Clark	Blue Rock Station	Jay Warmke	Brookville PA
PVI1210392	Ade Gharibian	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210017	David Griffin	Ohio State University- Ag Tech Inst	Frederick C Michel	Wooster OH
PVI1210402	Edwin Grigoryans	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210398	Vic Hacobian	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210403	Artak Hakobyan	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210399	Vahagn Herouni	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1209640	Ed James	Heartland Community College	Christopher Miller	Normal IL
PVI1209518	Josh Jaros	Blue Rock Station	Jay Warmke	Brookville PA
PVI1210396	John Keshishoghli	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210393	Mher Khachikyan	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210016	Marcazaum Lockett	Ohio State University- Ag Tech Inst	Frederick C Michel	Wooster OH
PVI1210015	Lucas Lykins	Ohio State University- Ag Tech Inst	Frederick C Michel	Wooster OH
PVI1210014	John Mann	Ohio State University- Ag Tech Inst	Frederick C Michel	Wooster OH
PVI1209520	James Manno	Blue Rock Station	Jay Warmke	Brookville PA
PVI1210401	Robert Navasardyan	Glendale Community College	Patrick Shahnazarian	Glendale CA
PVI1210013	Daniel Nordstrom	Ohio State University- Ag Tech Inst	Frederick C Michel	Wooster OH
PVI1209522	Eric Rensel	Blue Rock Station	Jay Warmke	Brookville PA
PVI1209517	Sylvia Rensel	Blue Rock Station	Jay Warmke	Brookville PA
PVI1210470	Robert Robinson	Daniel Morgan Technical Center	Chris Dinkins	Spartanburg S
PVI1210400	Richard Sarthou	Glendale Community College	Patrick Shahnazarian	Glendale CA

CERT. # R56 Insta	NAME Her (R56)	SCHOOL	PROCTOR	LOCATION			
R56210204	Alvin Cacabelos	Motorola Solutions	Reid R Harlocker	Schaumburg IL			
R56209542	Steven Campos	Motorola Solutions	Sam M Chreiteh	Plantation FL			
R56209540	Troy Endicott	Motorola Solutions	Sam M Chreiteh	Plantation FL			
R56210207	Andrew Hartline	Motorola Solutions	Reid R Harlocker	Schaumburg IL			
R56210210	Leo Hubbard	Motorola Solutions	Reid R Harlocker	Schaumburg IL			
R56209541	Herman Pang	Motorola Solutions	Sam M Chreiteh	Plantation FL			
R56208746	Brian Williams	Motorola Solutions	Sam M Chreiteh	Peachtree City GA			
Residential Electronics Systems Integrator (RESI)							
RESI210395	James Blowers	Glendale Community College	Patrick Shahnazarian	Glendale CA			
RESI209891	Kenneth Davis	Veterans Assembled electronics	Derek Abrassart-White	Hartford CT			
Student E	lectronics Tecl	hnician (SET)					
SET208944	John Barnes	Old Colony Regional Vo Tech HS	Richard A Dutra	Rochester MA			
SET209025	Tanner Safford	Old Colony Regional Vo Tech HS	Richard A Dutra	Rochester MA			
ST209459	Garrett Wilcox	Warren Co Career Center	Timothy M Sampson	Warren PA			
Wireless N	Network Techni	ician (WNT)					
WNT209180	Eduardo Maldonado	Metacom CET	Max Gutierrez Palma	Santiago Chile			
WNT209173	Ricardo Poblete	Metacom CET	Maxi Gutierrez Palma	Santiago Chile			
WNT209176	Juan Sola	Metacom CET	Max Gutierrez Palma	Santiago Chile			
WNT209179	Sebastian Villegas	Metacom CET	Max Gutierrez Palma	Santiago Chile			

ETA 10-YEAR MEMBERS!

ETA celebrates our members who have maintained membership for 10 or more consecutive years between June 1 and July 31, 2006 to 2016. Thanks for supporting your professional trade association!

NAME

Daniel Agababian CET
James Anderson CETsr
Lloyd Armstrong CETsr
Jonathan Autenrieth FOT
Miloud Belbachir
David Broach CETsr
Clifford Casazzone CET
Michael Cavazzini CET
George Charlton
Yeau-Yih Chen CETsr
James Coe CETsr
Delmarva Communications, Inc
Parker Difuntorum CETsr
James Dukette

LOCATION

Deer Park NY
Newborn GA
Hahnville LA
Waco TX
Houston TX
Madison GA
Farmingdale NY
New Castle DE
Tulsa OK
Mahwah NJ
Marrer LA
New Castle DE
Sacramento CA

Ray Brook NY

NAME

Lawrence Fable
Don Handel CETsr
Lucas Henry CETsr
Chris Holder CETsr
Stephen Horton CETsr
Kenneth Kear
Lance King CETsr
John Koyne
Aaron Kraft FOSP
Steve Maher
Frank Matthews CETa
Jason Maurakis CSM
James Miller FOSP

Robert Duran CETsr

LOCATION

Apple Valley CA
Brooklyn NY
Palm Springs CA
San Juan Capistano CA
Houston TX
Rome GA
Congers NY
Orlando FL
Wilmington DE
Bismarck ND
Greencastle IN
Rocky Mount NC
Blairs VA
Bismarck ND

NAME

Alfredo Newman
Eugene Orta CET
M Pavilonis
James Phillips CETa
Terry Price CETsr
Tim Proctor CET
Nelson Quintana CET
Donald Rhoney CET
Arlan Roisland CETsr
Daniel Stake CETsr
Ronald Von Hoelle
Kenneth Wherry
Chad Yeatts CSS

LOCATION

Albuquerque NM
Fresno CA
Otisville NY
Princeton NC
North Huntingdon PA
Blairs VA
Miami Lakes FL
High Point NC
Lonsdale MN
Riverside CA
Bear DE
Van Nuys CA
Chatham VA



New Certified Service Centers

Barbeck Communications Group, Decatur, IL
Integrated, LLC, Jackson, TN
Metro Communications, LLC, Knoxville, TN
Nashville Communications, Nashville, TN
Tri-County Communications, Oneonta, NY
Metropolitan Communications, Carrollton, GA



New Lifetime Member

Michael Dennis Tillman Monroe, GA

THE HAWTHORNE EFFECT AND LIFI

How the Quality of Life is Changing, Thanks to LiFi Optical Wireless Communication Technology

by JB Groves III I FOI, ITS, Wharton County Junior College

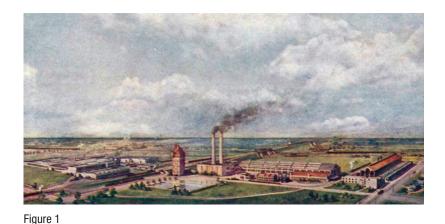




Figure 2

n 1991, I was introduced to the American Productivity and Quality Center (APQC) in Houston, TX by a colleague at the University of Houston while working on my undergraduate

degree. A part of the curriculum was economics, which focused on quality/productivity enhancement theories. One of those theories was the Hawthorne effect.

The Hawthorne effect theory originated from Henry A. Landsberger's analysis of experimental results derived from a study commissioned from the management of a Western Electric factory outside of Chicago called the Hawthorne Works - "The Electrical Capital of America" (figure 1).

One of the resulting observations from this study was that workers seemed to become more productive in higher or lower levels of light, which was a meaningful benefit for productivity and quality. The tower (figure 2) pictured in figure one is the only remnant that remains of the complex. It is a museum found on the grounds of Morton College.

I'm going to fast forward a bit and use the Hawthorne effect and Light Fidelity (LiFi) as a quality of life application analogy to the current undertakings of an entrepreneur in the country of Abidjan on the Ivorian Coast of Africa, Ange Frederick Balma, with LIFI LED CÔTE D'IVOIRE.

His company is an integral part of the government of Abidjan and an organization called 1 World Connected with efforts to connect 5,000 people in the Ivorian coast villages to the Internet by 2020. Balma's project involved implementing Optical Wireless Communication LiFi systems in the village of Drongoine on the Ivorian Coast.

According to Balma, the implementation of LiFi in the villages resulted in the following quality of life benefits:

- "The long term goal is to bring the young people back to the countryside."
- "The young people go to the big cities but they cannot find jobs. They do not know what to do. We want to help them get their act together and help them do more with their lives."
- "We have already seen them coming back by bringing technology to Africa that will help reach goals set by our leaders."
- "It is a way of bringing development to the area, especially with young people."
- "LiFi technology provides power to lights in their homes, school, hospital and the Internet, gaining access to information for all facets of the community."
- "When the school children get home at night, they have lights and can sit down and do their homework in peace. I have named them the 'Children of the Light'."
- "In today's world, if you cannot use a phone, tablet, or computer, you might as well be illiterate."
- "They talk about bringing light to the villages but if you can bring light and the Internet at the same time – it is even better."

LiFi has absolutely changed the quality of life, thanks to light. I would say that this is an overwhelming success story for Hawthorne's effect. //

Groves Gets Lots of Attention after LiFi Presentation



ETA International attended the High Impact Technology Exchange last week in Miami, FL. After his session "How LiFi Network Technologies will Change Our Lives," educators crowded around JB Groves, FOI, ITS, Instructor of Computer Science at Wharton County Junior College (Richmond, TX). They wanted more information about the new careers LiFi will create. JB eagerly spread the word about the creation of ETA's new LiFi certification currently in committee development that will help propel their students' careers. //

FiberOpto Asia and Sticklers Fiber Optics Make Big Impact for ETA Fiber Optics Students

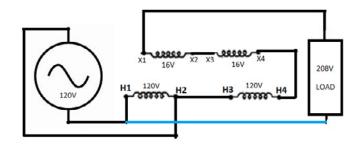
Brian Teague, Product Line Manager, Sticklers Fiber Optics, is pictured with Boon Kwee (BK) Thiam, FOT, Instructor, FiberOpto Asia, as they double checked the testing insertion loss performance set up Thiam was working for one of his FTTH customers. Teague and Thiam were with Dixon Tan, Sticklers Asia Business Manager, and Jerald Chan, General Manager for MicroCare-Sticklers Asia.

Teague said Thiam is doing an impressive job of representing ETA and using Bill Woodward's (FOD) latest book, "Fiber Optics Installer (FOI) Certification Exam Guide" and content for fiber optic installations and trainings in Myanmar, Vietnam, Brunei, Thailand, Philippines, Indonesia, Malaysia and Singapore.

"The ETA programs are literally helping and impacting thousands of people in our industry all over Southeast Asia, helping many people you may never meet become better at their job, teaching them to work safer through better situational awareness on the work site, and increasing their overall competitiveness in the marketplace when they use the skills they are picking during BK's training sessions," Teague said. //



Puzzle question on page 9



ETA CERTIFICATION MAINTENANCE FAQS

Q: What is Certification Maintenance and how do I satisfy the requirements for it?

A: Certification Maintenance is ETA's policy for complying with ISO's 17024 recertification standards and with ETA's accreditation through the International Certification Accreditation Council (ICAC). It also makes sure ETA has the most up-to-date information on file with the people they have certified. What it requires is a completed certification maintenance form with updated information for the technician, employer verification, continuing education hours and a nominal processing fee of \$25 per year. Maintenance also serves as a way to promote members staying current in their field.

Q: Do different certifications have different requirements?

A: Yes. Because ETA offers certifications in many different fields, we have different recertification requirements for different certifications.

- + One-Year Renewal:
- All ARINC and SAE certifications
- + Maintenance with Hands-on:
- Fiber optics certifications, Data Cabling, Photovoltaics, Small Wind, Termination and Testing, Photonics, Broadband-VoIP and Passive Intermodulation Testing
- + Non-Renewable:
- Student Electronics Technician (SET)
- + Retest Only
- Motorola R56, MCT (MCORE), CSIA (R56 Auditor), GTR 8000 Repeater Site (GTT)
- + Lifetime Certifications:
- Customer Service Specialist, Certified Service Manager, CET Master (Please note all lifetime certifications are not accredited by the International Certification Accreditation Council)
- + Standard Certification Maintenance:
- All other certifications

Q: What is Certification Maintenance with Hands-On?

A: Certification maintenance with hands-on is for certifications that have a hands-on assessment as part of the certification exam during a training class or time of testing. Normal certification maintenance requires EITHER employer verification OR 10 hours of continuing education submitted annually to ETA. Certification maintenance with Hands-On requires employer verification AND continuing education, totaling 24 hours over the course of the four-year certification period. The fees associated with both of these are the same--\$25 per year.

Q: What is Continuing Education and does my on-the-job experience qualify?

A: No, your on-the-job experience does not count for continuing education, but it does satisfy your employer verification requirement. ETA defines continuing education as additional industry experience you acquire outside of your normal job duties to improve your skills and knowledge. There is not a comprehensive list of continuing education, so if you attend training or a seminar send documentation (certificate of completion, transcript, etc.) to ETA to see if it qualifies. Here is a

list of examples of valid continuing education:

- Education credits
- Graduation certificates
- College credit transcripts
- Electronics technician training sessions or courses (completion certificate required)
- Association or manufacturer/supplier-sponsored conferences or seminars (receipt of registration required)
- Military electronics training classes
- Serving on ETA committees as a Subject Matter Expert
- Publication of a technical article or research
- Submit an article for ETA's *High Tech News* magazine.
- eITprep online self-study courses

Q: I have multiple certifications. Do I need to submit multiple payments?

A: No. One certification maintenance payment covers all of your maintainable certifications for that year. Keep in mind, though, that if you have one Hands-On certification as well as non-hands-on certifications, you will still need to meet both the continuing education and employer verification requirements for the Hands-On certification.

Q: I missed a year (or more) of maintenance, can I catch up?

A: Absolutely! As long as you're within the 90-day grace period, then you can always catch up on certification maintenance. You will have to make up the payments for the years missed.

Q: How do I submit my Certification Maintenance?

A: There are many ways to submit your certification maintenance: Mail to 5 Depot St Greencastle, IN 46135

Email to eta@eta-i.org

Fax to 765-653-4287

Submit online at eta-i.org/certification_maintenance_form.html

Q: Why have I not received a letter to remind me about my maintenance?

A: ETA sends letters through the mail on a yearly basis. If you have not received yours, there can be any number of issues that can cause this, so make sure to contact ETA about your maintenance if you haven't heard from us in a while. Be sure to keep your address and contact information up-to-date. We love to hear from our certification holders!

Q: I earned my certification a long time ago. Is there any way to recertify?

A: Contact us! More than likely, you will have to retest to recertify, but give us a call and we'll make sure you are pointed in the right direction.

Q: I'm an employer. What reason do I have to encourage my employees to maintain their certifications?

A: The best answer to this is that you want to show clients and customers that your employees not only have obtained the knowledge required to do their job, but have also validated that knowledge through an independent third party and maintained that knowledge and ability. It also shows that your company is committed to ensuring your technicians are not only knowledgeable, but that they also keep up-to-date with technology and care about their industry.

COMMITTEE CORNER UPDATE

ETA RESEARCH AND DEVELOPMENT:

David Weaver, CSS and Ed Kirkpatrick, PVII, CSS

ETA committee members have so much passion for sharing their knowledge. Subject Matter Experts (SMEs), to say the least, are the lifeblood of certifications. ETA's Test Development department has been busy with the formation of new SME committees to develop new certifications that industry craves.

The new IoT Smart Technology Systems (STS) certifications (formerly RESI) committee has developed a new competency for the Basic Smart Technology Systems certification and is currently working on new exam questions. The number of questions for the Basic STS will be increased from the RESI's 75 question to 100. The target date for completion is mid-September. While working on the Basic IoT/STS, the committee is also reviewing and discussing competencies for the four certification endorsements within STS, which are: Audio/Video Entertainment, Computer Networking, Security-Surveillance and Environmental Controls.

The STS committee currently has 14 members and continues to grow. They are as follows: John Baldwin, CETsr; Clifton Beck; John Bosnack; Chuck Brooks, RESI; Joseph Delio, CETms; John Dings, CET, RESI, CSS; Marilyn Fernandez, FOI, RESI, B-VoIP, WNT, TCM; Michael Goshen, ITS, CST, NST; Lawrence Hardman, FOT, RESI, B-VoIP, WNT, NCT, CST; Ed Kirkpatrick, PVI, CSS; Rick Pinkava, CST; Charles Poole; Randy Reusser, CETsr, FOI, RESI, CSM; and John Rooks, FOI.

The Audio/Video Forensic Analyst (AVFA) is another new ETA certification in development. The AVFA identifies the major knowledge, skills, and abilities for a certified Audio-Video Forensics Analyst, which includes evaluating, authenticating, and enhancing analog/digital media using digital electronic technology. A certified Audio-Video Forensics Analyst must be capable of recovering and repairing analog/digital data while maintaining the integrity of all original recordings. The AVFA committee has finished the competencies and is working to complete the examination question pool. The certification is projected to be ready by the publication of this issue.

The AVFA committee currently includes: Muhammad Ali; Doug Carner, CCFE, CPP, CFHI; Marisa T. Dery, AES, IAI, IEEE, NAIS, CARAS; Michael Goshen, ITS, CST, NST; Ed Kirkpatrick, PVI, CSS; Brian Klier; Joe Maher, CSM, CSS; Jennifer Owen;

Muhammad Siddique; and Muhammad Yousaf.

In addition, the Systems Level Technician (SLT) will be added to the electronics program. The SLT committee has completed the competencies for basic systems electronics and is creating the examination pool. The committee suggests the SLT is for individuals trained in the basic foundational levels of electronics used in troubleshooting complex functions without the need for component circuit analysis. The SLT will provide a foundation of skills, in a wide variety of electronic industries, needed by technical personnel to advance their abilities with their work endeavors.

The SLT committee members are: John Poelma II; Ira Wiesenfeld, PE, CETms; John Baldwin, CETsr; Karl Eilers, CAT, LAS; Bob Lovelace, M.Ed; Joe Cook; John Shows, A.V.P. MGCCC; Aaron Cleveland, CET; Jeff Mori; Rich Booth, FOT; Jay Thompson, CETsr; Dwayne LaFontaine; Charlie Hardt; Jason Throop; A.J. Wiesenfeld, PE, CETsr,; Rob Walker, CETsr; and industry members from Duke Energy, Southern Company, Chevron, and four additional members.

Introduction to 5G (5GT) is another new ETA certification that will make its debut at Education Forum 2019. For details about the certification and partner training workshop at the conference, co-locating with the International Wireless Communications Expo in Las Vegas March 4-8, 2019, please see the press release here: http://www.eta-i.org/2018_ETA_Promotes_5G_with_New_Certification_and_Partner_Training.html.

Lastly, the fiber committee members working on aerospace content completed the ARINC Fiber Optic Installer (AFI) examination update. Committee members include Bill Woodward, PE, FOD; Dr. Geoff Proudley, SFF; Larry Wood, AFT, FEEC; and Kevin Barks, SFF, FOT.

ETA thanks the many members who have given countless hours above and beyond their normal workday to participate as Subject Matter Experts in its many certification programs.

If you have any questions, or would like to volunteer your expertise, please contact David Weaver, CSS dweaver@eta-i.org and Ed Kirkpatrick, PVI, CSS ekirkpatrick@eta-i.org. //

What's All This Prank Stuff, Anyhow?

by Paul Rako

Reprint permission granted. This article first appeared May 29, 2018 on Electronic Design, www.electronicdesign.com.

ho says engineers don't have a sense of humor? Remember the WOM, inspired partly by the Umac 606 phantasatron? The DEAD diode? The "SCROM" scratchable read-only memory? The list goes on.

Many of the early analog electronic greats were inveterate pranksters. Sometimes the prank made the papers, as when Bob Widlar bought a sheep and staked him on the lawn at National Semiconductor (Fig. 1). National had announced it was cutting back on lawn maintenance to save money, and Widlar thought he should make a statement regarding excessive cost cutting. National was founded by Charlie Spork, among others. Charlie was the manufacturing guy at Fairchild, so he tended to have a factory sensibility. You don't need a fancy lawn to manufacture semiconductors.



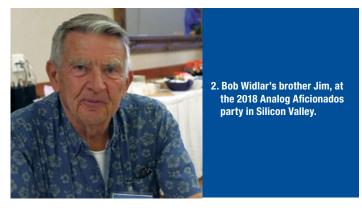
1. Bob Widlar poses with the sheep he staked to the lawn at National Semiconductor. His Mercedes is in the background. He transported the sheep in the back seat the 30 or so miles from Morgan Hill. (Courtesy of Fran Hoffart)

Pierre Lamond, a manager at National, also had that manufacturing mentality. He was notorious for expecting punctuality of his engineers, as if they should punch a clock in the morning. He used to stand at the entrance to the campus and take names of anyone who dared be even a few minutes late. A friend told me that the IC designers were so upset at this treatment that they all threatened to walk out en masse if Lamond kept up his strict tardiness rules.

It was around this time that analog geniuses Jim Williams and Bob Widlar figured out how to make a wall socket that converted the 60-Hz line frequency to something less. They got Widlar's brother, Jim (Fig. 2), to install the socket where Lamond had his desk clock plugged in. Since the clock ran slow, it would make Lamond late to appointments and such. Williams told me the whole floor could hear Lamond's shouts when he discovered the subterfuge.

April Fool's

With the prankster nature of analog folks, its no wonder that April 1st is a high-holy day. I have a pdf copy of what looks suspiciously similar to a Linear Technology design newsletter issue. The logo is similar, but the company name is "Unreal Technology." Dated April 1, 2003, VOLUME XIII NUMBER



1.5, the issue has topics such as "SMBus/I2C Clarifier Improves Quality of Serial Bus Data." The part supposedly can take text with gibberish and convert it to a Joyce Kilmer poem. The article is written by Dave "Smoke and Mirrors" Dwelley.

Jim Williams has an article, too, "A Coprossessor-Based Fast Logarithmic Computer." The logarithms are created by the well-known trick of putting a diode in the feedback of an op amp. The coprocessor is a Z-80 microcontroller hooked up by its power and ground pins to reverse-bias them, so the whole 8,500-transistor chip serves as the diode. The newsletter had other great spoofs, like a quad temperature sensor where all four sensors were in the chip die, a pretty useless feature.

Bob Pease had his own joys on April 1st. Back in October of 2010, Pease wrote me about one of his April Fools' pranks. Pease remembered.

"Here at NSC (National Semiconductor), we took a few hundred dead TO-3 can regulators, and I cut the leads off, and had them silkscreened as BD-1. Bob Dobkin invented the BD-1, but I got them screened up. The BD-1 got some publicity in EEE magazine. It's a Battery Discharger, BD-1. If you bolt onto each end, it can carry about 900 amps. Maybe not 1000. Good for discharging large batteries. After the publicity came out, our marketing guy for regulators, Roy Essex, was furious that he could not find any info on this new IC. Some dumb customer had been calling him, and asking why he was so ignorant that he could not get him more info on this new NSC circuit. He was highly annoyed.

"I left a dozen BD-1's on Roy's desk, explaining that any press release dated 1 April, and published in a magazine on April 1, should be taken very lightly!! His furious comments increased, for a while. I bet he is still pissed off at us. Beast [sic] regards. / rap / It's past noon. I need a drink!"

This discussion was part of an email where he described silkscreening some parts that had an obscene acronym aimed at a competitor. He sent those parts to engineers at the competitor, and let them puzzle over the part until one of them pronounced it out loud, when its profane intent became very clear. Pease remarked, "The guys making silkscreens were usually agreeable to my insane requests."

WOM-Batty

Creating absurd and phony parts were another trait of electrical engineers. They include the Signetics WOM, a Write-Only Memory. Pease noted that it "was professionally presented in full color in a four-page foldout section of electronics magazines." You can still find the 1972 datasheet online. John G. (Jack) Curtis, the perpetrator of the prank, has a website describing the WOM in exquisite detail. He takes Pease to task for an unreliable account of the creation story of the WOM, but all Pease had to go on was industry hearsay, there were no websites when Pease would describe the WOM.

What is delightful is that the WOM was partially inspired by the Umac 606 (Fig. 3). Well-known to Ham enthusiasts, this was a spoof datasheet for a vacuum tube that the EIMAC division of Varian published in 1950. The datasheet begins, "The Umac 606 is an infernal anode, helical beamed phantasatron having a dissipation rating. The unique vacuum in the phantasatron is



3. The Umac 606 was a spoof vacuum tube with an anode shaped like a toilet plunger. (Courtesy of **EIMAC Division of Varian)**

of the double-pumped type, permitting a clear view of the non-emitting tripleprocessed plunger-type plate. Because of its unique self-flushing construction, this tube will remain usable throughout its useful life."

You can tell that engineers loved to parody marketing jargon, even 67 years ago. As a former application engineer, I love the "application notes" section of the Umac 606, which contains the phrases, "Because of its unique construction, the 606 can serve as an oscillator, modulator, or amplifier. It usually serves as all three simultaneously. No specific operating conditions are available. Ratings will be available however, as

soon as our competitors issue their catalogue. Exhaustive tests in our advertising department have shown that the 606 will give 50 percent more output than you will obtain."

The comment about the datasheet having better specs than you will obtain rings true for me. It took a lot of patience to explain to customers that specs in the datasheet were optimum specs at very specific operation conditions. Many customers thought it was somehow unfair or fraudulent that an amplifier could not have the same distortion or power-supply rejection at 3 V as it had at 15 V. Of course, they wanted to use it at 3 V and were quite miffed that the part did not measure up to their expectations.

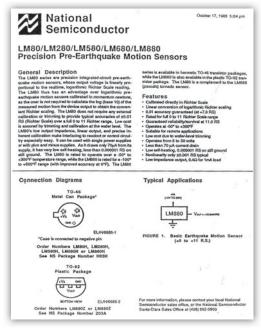
The DEAD, the SCROM, and Pre-Earthquake Motion Sensors Another great prank part was dreamed up by former Linear Tech CTO Bob Dobkin. Now part of Analog Devices, Dobkin dreamed up the DEAD in 1975, a Darkness Emitting Arsenide Diode. Pease noted, "This had many features—light output never fell off with time, and they were cheap due to high yield. Just check the acronym."

Some spoof ICs have a basis in fact. While at Signetics, Jerry Lawson (Fig. 4) came up with the term SCROM, the "Scratchable Read-Only-Memory." It was a joke reference to the way that they could prototype a ROM (read-only memory) by scratching the metallization on a die to give the memory values desired. This was when a 64-bit memory was big, back in the 1970s. I have a video interview I did with Lawson that I will get up soon. He



was a great guy, yet another friend I made at the Silicon Valley Electronics Flea Market.

The pranksters at National Semiconductor (now Texas Instruments) came up with another spoof part in 1989. It was the LM80/LM280/LM580/LM680/LM880 Precision Pre-Earthquake Motion Sensors (Fig. 5). The datasheet date, October 17, 1989 5:04 PM, was the exact moment of the Loma Prieta earthquake in San Francisco. The LM part numbers are all interstate freeway designations around the Bay Area.



5. A spoof datasheet for a pre-earthquake sensor that the engineers at National Semiconductor came up with shortly after the 1989 Loma Prieta earthquake.

The datasheet starts, "The LM80 series are precision integratedcircuit pre-earthquake motion sensors, whose output voltage is linearly proportional to the realtime logarithmic Richter Scale reading. The LM80 thus has an advantage over logarithmic preearthquake motion sensors calibrated in momentum newtons, as the user is not required to calculate the log (base 10) of the measured motion from the device output to obtain the convenient Richter scaling."

The datasheet features include wildly implausible accuracy, temperature, current, and self-heating claims. I am not sure where I got this datasheet image, but it was most likely from the prankster-in-chief, Bob Pease himself. Perhaps he should have been called the Czar of Pranks, not the Czar of Bandgaps. //



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Where Does ETA Certification Take You?





Mike Stafford, CETsr Communications Engineer City of San Antonio ITSD - Radio Services Division

Mike said he's had a healthy interest in electronics and communications since an early age, beginning with a father who was an engineer for Honeywell and a science teacher who exposed him to Ham Radio and electronics

in high school. (Call Sign: W4MIC)

He began his career almost 30 years ago with an enlistment in the U.S. Air Force. After separation, he was hired by a local two-way radio shop in a small North Carolina town.

"It was a raw, basic, and pithy introduction to the radio industry, beginning with installing radios into patrol cars," Mike said, "and I clawed my way upward from there."

Over the years, he has had many educational opportunities and a lot of experience - ranging from two-way radio to microwave and from fiber optics to satellite systems. He recently completed his engineering degree, which he said has only served to demonstrate how much more he has to learn.

Mike has earned many different credentials over the years and obtained several ETA certifications. He is currently a Senior Certified Electronics Technician (CETsr), and is only two credentials away from obtaining his Master CET.

"As the recognized industry standard, ETA certification has become an essential factor in my career," he said, and added, "I try to show my employers that I am a professional in what I do, continually bettering myself by learning the latest skills, and ETA is a valuable resource in doing so."

He was recently hired by the City of San Antonio as a Communications Engineer for the Radio Services Division of the Information Technology Services Department, where they value his education, experience, and consider his professional certifications as a valuable tool for career advancement.

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