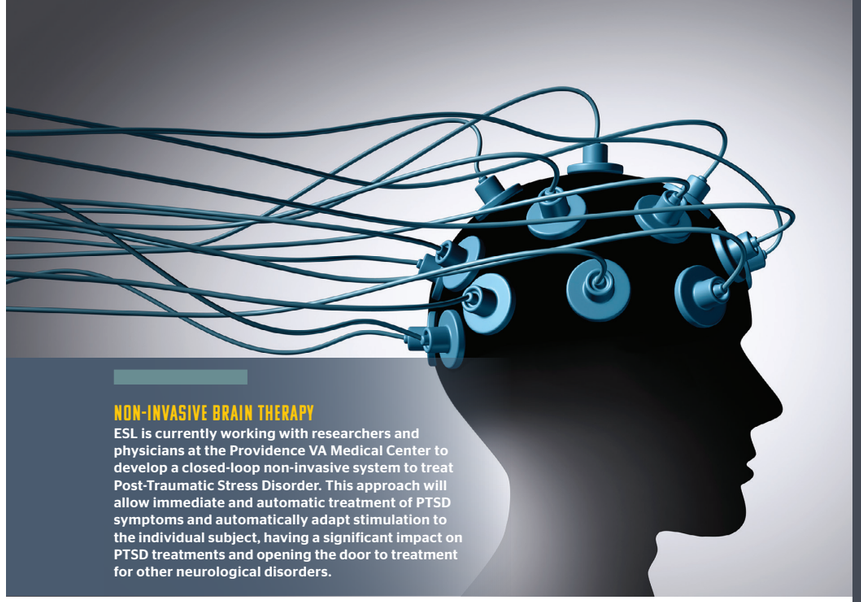
MANUFACTURING

SPONSORED CONTENT

ELECTRO STANDARDS LABORATORIES INCORPORATED

ELECTRO STANDARDS LABORATORIES IS A LOCAL HIGH-TECH COMPANY AND HAS REMAINED PROUD TO CALL RHODE ISLAND ITS HOME SINCE 1976.

AIRCRAFT CARRIER LAUNCH SYSTEM
ESL's team of research and development engineers and scientists have developed and delivered digital signal processor-based motor control systems used to launch and capture aircraft on the next generation fleet of U.S. Navy aircraft carriers, replacing current steam and hydraulic systems.



NON-INVASIVE BRAIN THERAPY
ESL is currently working with researchers and physicians at the Providence VA Medical Center to develop a closed-loop non-invasive system to treat Post-Traumatic Stress Disorder. This approach will allow immediate and automatic treatment of PTSD symptoms and automatically adapt stimulation to the individual subject, having a significant impact on PTSD treatments and opening the door to treatment for other neurological disorders.

Electro Standards Laboratories (ESL), the family-owned business based in Cranston, has been collectively developing, growing and enhancing for forty-five years. Family members Raymond Sepe Sr., Brenda Bucci-Sepe, Dr. Raymond Sepe Jr., Kenneth Sepe, and Michael Sepe have undeniable experience in the telecommunications arena, and their business has an extensive track record of technological innovations with global distribution of products manufactured here in the Ocean State.

ESL's highly skilled team designs and builds data communication copper and fiber optic interface switches, precision measurement devices and digital signal conditioners, to name a few.

The contract engineering group is a pioneer in the development of advanced electric motor control systems and provides services to both commercial and government clients. ESL assists with applied research and development programs, including various types of motor controls, sensorless linear motor control systems to launch aircraft from next generation aircraft carriers, vector controls, power electronics, inverters and digital signal processor-based data acquisition and instrumentation.

ESL also regularly employs interns, graduates and professors from all Rhode Island universities and colleges in an effort to support local talent.

With a desire to stay on the leading edge of innovation, new research and business initiatives of ESL are in the field of hybrid battery-solar trailer refrigeration systems, ocean wave energy harvesting, portable hybrid battery power, battery management systems and the ability to provide non-invasive brain stimulation to treat various brain disorders.

Explore the Electro Standards Laboratories website at ***electrostandards.com***

> "ELECTRO STANDARDS LABORATORIES HAS OVER FORTY YEARS OF EXPERTISE TO PROVIDE STATE-OF-THE-ART HIGH-TECH SOLUTIONS."

ESL INNOVATIONS

"GREEN" REFRIGERATION TRAILER SYSTEM
Powering this solar trailer, the Power Management Unit utilizes a high energy battery and a power management system to eliminate the diesel fuel used to operate refrigerated trailers. This new "green" technology results in significant fuel cost savings for the truck operator as well as reducing the carbon footprint generated by the current diesel fuel cooling of a refrigerated trailer.

FORCE MEASUREMENT INSTRUMENTATION
This intelligent microprocessor-based instrument is designed for the measurement and control of strain gage transducer-based systems combining the force channels, encoder position channels and more into a versatile platform that can deliver the most powerful and affordable instrumentation in its class.

FIBER INTERFACE CONVERTER
This converter is used to connect fiber optic linked Video Lottery or Point of Sale Terminals to a controller having an RS-485/RS-422 interface port.

MULTI-CHANNEL FAILOVER SWITCH
The Model 7150 automatically switches up to sixteen devices from a primary network to a backup network if the primary network goes offline. The failover and recovery programming of the 7150 reverts the connection back to its original state when the primary network returns online.