

United Electronic Industries & Blue Origin

VICTORY IN THE NEW SPACE RACE

Blue Origin is a space exploration company founded and privately funded by Amazon's Jeff Bezos. Though it was initially focused on suborbital spaceflight, the company's operations have expanded to include rocket engines, launch vehicles, and most recently a moon lander set to be completed by 2024.



THE IMMEDIATE CHALLENGES

- 1 Blue Origin needed to consolidate custom and COTS (Commercial Off The Shelf) DAQ and control hardware into one platform to accelerate development, minimize maintenance, and deliver programs on time.
- 2 Blue Origin lost valuable time and productivity managing and maintaining homegrown hardware solutions, with lacking documentation and support protocols, leading to complex deployment processes and difficulties training personnel on systems.

UEI'S PATHWAY TO SUCCESS FOR BLUE ORIGIN

- UEI co-developed custom COTS hardware based on a standardized UEI embedded platform, with a single software API for hardware-in-the-loop (HIL), system integration labs (SIL), and design validation and verification applications.
- The new hardware included 3 new COTS I/O boards: an RTD (Resistance Temperature Detector) simulator, a thermocouple simulator, and a current sinking analog output board perfect for Blue Origin's design validation needs.
- The new I/O boards' compatibility with a standardized UEI system allowed them to be paired with existing standardized UEI hardware to produce the best fitting system solution possible.

END RESULT **UEI'S STANDARDIZED HARDWARE SOLUTIONS HELPED BLUE ORIGIN SAVE TIME, ACCELERATE DEVELOPMENT, AND COMPETE IN THE SPACE RACE.**

- [WIN]** UEI's 10 Year Availability Guarantee and standardized, ready-to-order hardware allowed Blue Origin to save valuable time and resources on obsolescence management and product acquisition.
- [WIN]** UEI hardware improved Blue Origin's test capabilities and reduced development time, allowing Blue Origin to focus on their core mission of developing rockets and rocket motors.
- [WIN]** The COTS I/O boards UEI developed for Blue Origin are 100% compatible with UEI's existing hardware, allowing UEI to broaden our product base and pass the technology onto all of our customers.

ASK US HOW UEI CAN DO THE SAME FOR YOUR COMPANY!

