

Customs Designs and Special Projects

For the past 24 years, Alphi Technology Corp. has provided its customers with state of the art Embedded systems "Commercial off the Shelf" I/O solutions.

However ALPHI has equally focused on designing, manufacturing and integrating Customized Boards and Systems, as simple as a single digital I/O board or as sophisticated as leading edge Data Acquisition, Digital Servo Control technology. Alphi Technology has also delivered complete equipments such as, airframe and component testing for the fixed-wing and rotorcraft aviation industry, or MIL-STD-1553 for Underwater Mine detecting systems. Our services include modifying hardware, software, and firmware, as each unique system requires.

Below are a few examples of complete Systems that ALPHI Technology has successfully designed, integrated, delivered and maintained.

- ✚ **Allied Signal Fluid Systems - AZ:** Large-scale system integration, VME based data acquisition and control, Real-Time data logging, archive and data base retrieval. Developed Graphical User Interface (GUI) with National Instruments Lab Windows and implemented LAN to Allied Signal Fluid Systems network.



- ✚ **Bell Helicopter Textron - TX:** V22 Wing Assembly Tests, 64 channel Digital Servo Control System with 64 channels of 16 bit data acquisition & dual 100baseT Ethernet support.

- ✚ **Bell Helicopter Textron - TX:** V22 Airframe Tests, 80 channel Digital Servo Control System with 64 channels of 16 bit data acquisition & dual 100baseT Ethernet support.

- ✚ **Bell Helicopter Textron - TX:** V22 Components Tests, Two systems, 24 channel Digital Servo Control System with dual feedback (Load and displacement), 64 channels of 16 bit data acquisition & 100baseT Ethernet support.



- ✚ **Boeing / McDonnell Douglas - Mesa:** Developed Intelligent Waveform Generator (IWG) for the five blade rotor hub.

- ✚ **Boeing / McDonnell Douglas - Mesa:** 16 channel load/displacement Digital Servo Control System used on the Strap Pack test fixture.

- ✚ **Boeing / McDonnell Douglas - Mesa:** Developed the MDH30 Control Board for the NOTAR/ EXPLORER Airframe tests.

- ✚ **Boeing / McDonnell Douglas MTA Long Beach-CA:** 10 systems, 8 channel Digital Servo Control System load feedback, 100baseT Ethernet support.

- ✚ **Boeing / USAF/Boeing C-17 System Integrator Simulator Long Beach-CA:** High-speed Data Acquisition and digital servo control COY system for Boeing Tests and Evaluation Laboratories / Structural Testing



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- ✚ **Borg Warner - IN:** Transmission Test Stand, 12 channel Digital Servo Control System load feedback.
- ✚ **Ford Motor - MI:** Automatic Transmission Test Stand, 6 systems, 8 channel Digital Servo Control System load feedback.
- ✚ **Hydro Quebec and SGI -Canada.** Hypersim Digital Real Time Power Grid Simulator- Predictive tool for Complex Electric Utility Environment
- ✚ **Lockheed Martin Maritime Systems & Sensors- NY.** AN/WLD-1 Remote Minehunting System- Organic Mine Reconnaissance for the Littorals.
- ✚ **Lockheed Martin-FL:** ARMY vehicles- Data collection for Maintenance and repair of combat vehicles.
- ✚ **NASA AMES - CA.** Wind Tunnel Data acquisition sub-systems. 2600+ channels 16bit, 100 KSPS acquired and stored for analysis.
- ✚ **ITT-CA:** D.G.R. - Synchro Resolver Simulator (Laser controller)
- ✚ **General Dynamics-** Testing systems for the Satellites program LDCM.
- ✚ **Orbital Sciences Corp-** Testing resupplying / cargo functions for The International Space Station

