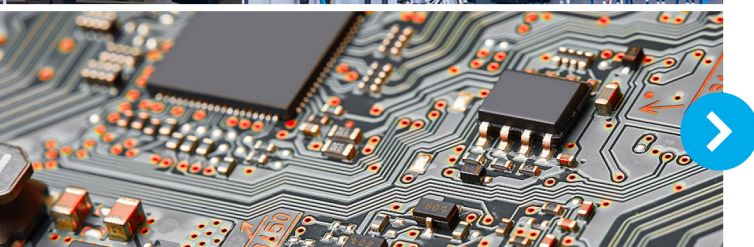


CUSTOM VALIDATED TEST SYSTEMS



You. At home. On time. That's Good Automation.



Medical Device Test Systems

FDA Regulatory Compliance
21CFR820.70, 21CFR820.72
Part 11 Compliance
Quality Management System
Validation Planning
Protocol Development
Software Validation
Process Validation
Test Method Validation
Test System Integration
Obsolete System Updates
Measurement System Analysis
Requirements Traceability
Risk Management

LabVIEW
LabWindows CVI
TestStand
C, C#, C++
Python
Electrical Circuit Design
Data Acquisition
High Speed Control
Automatic Test Equipment
FPGA development
Mass Interconnects with ITA's
Custom Validated Fixtures
Mechanical Design
Gage R&R

Successful Deployments

Vision Inspection System

- Detected all defects on a translucent plastic surface
- Captured and processed images with NI Vision software
- Developed algorithms that detected scratches, pitting, and flow lines
- Integrated motion controller to move DUT relative to the camera

Robotic Arm Test System

- Designed, built, and validated custom fixture for robotic arm
- Built and optimized robotic arm controls with LabVIEW software, allowing interaction with DUT.
- Fully automated dynamical loads test steps, eliminating data entry

Programming and Test Systems

- Developed software requirements
- Wrote and performed dry-run of Software Validation Protocol
- Improved and added new features to the software
- Combined two processes into one to improve efficiency

Electromechanical Test System

- Developed LabVIEW software for electrosurgery device testing
- Built controls for pneumatics, camera, and process indicators
- Wrote custom serial commands for communication with DUT
- Logged data to a remote database with Part 11 compliance