



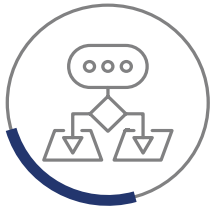
Innovative Solutions — • — Engineered Excellence

Custom Systems Test • Measurement • Control

When conventional, out-of-the-box systems won't meet your application needs.

Aerospace ♦ Defense ♦ Manufacturing ♦ Life Sciences ♦ Energy ♦ Academia ♦ Marine

Data Acquisition



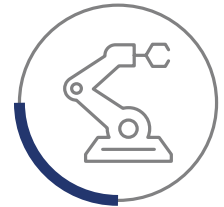
Automated Test
and Measurement



Machine Vision



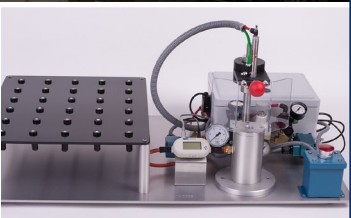
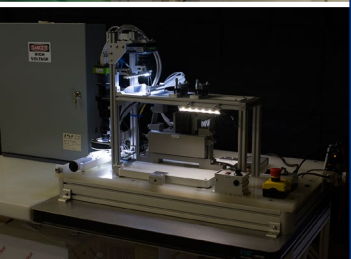
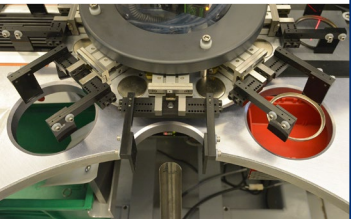
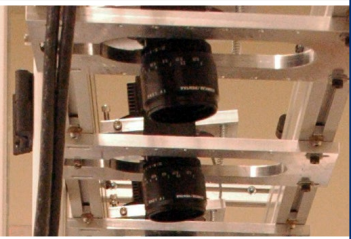
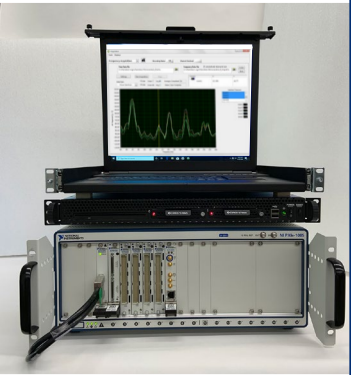
Process and
Motion Control



The Value of Test

Reduce Risk and Improve ROI - Incorporate Test from Design through Production

- ▶ Gain insight into your process by properly analyzing test data to isolate problems and determine if they are associated with materials, machinery, failed parts, or human error
- ▶ Reduce risk and improve time to market by validating design and function during the entire development process
- ▶ Reduce rework, waste, and product returns while improving yield by implementing Quality Control testing throughout the production cycle



About PVI Systems

Since 1999, PVI Systems has been designing and building Test and Measurement systems to provide clients with solutions that significantly improve their product development, manufacturing, or testing processes.

We work with leading companies from a diverse array of industries including Defense, Aerospace, Manufacturing, Life Sciences, Pharmaceutical, Energy, Academia, and more.

From software architecture to system-level hardware design, we focus on developing the most effective solutions resulting in critical benefits for our clients such as improving the inspection of a product, saving money by automating manual processes, or avoiding equipment obsolescence. We often work with our clients' engineering teams to maximize budgets and execute business plans to achieve profitable and timely results.

Data Acquisition – Measure, Store and Analyze Data

- ▶ Physical Test and Measurement – Mixed Sensor Data Logging to Real-time DAQ Systems
- ▶ Custom Database Management
- ▶ Integration Support and Test Consulting

Automated Test & Measurement – Validate Design, Reduce Risk

- ▶ Custom Mechanical and Electrical Test Solutions - Test Fixtures and Software
- ▶ Custom Reports and Database Integration
- ▶ Automated Part and Liquid Handling

Vision Systems – Image-based Automated Inspection and Analysis

- ▶ Scratch and Defect Detection, Dimensional Analysis, and Quality Inspection
- ▶ Integration of Lighting, Laser Profilers, Line Scan and Area Scan, Thermal, and 3D Camera Technologies
- ▶ Mechanical Part Handling and Feeding
- ▶ Integration with Manufacturing Processes and Existing Factory Automation

Process & Motion Control – Optimize Workflow and Reduce Human Error

- ▶ Servo, Stepper, PID Motion Control Algorithm
- ▶ Integration into Manufacturing Systems
- ▶ Condition Monitoring and Data Recording
- ▶ NI CompactRIO (cRIO) Real-Time System Development and Integration

LabVIEW Consulting and Training

- ▶ Experienced, Certified NI staff
- ▶ One-on-One Project-based Training

Chameleon Turnkey DAQ System

PVI Systems developed the Chameleon System, a powerful and flexible system for turnkey DAQ application needs.



Chameleon's unique architecture provides the same intuitive interface whether configuring basic or high-channel (1000+) count systems.

Successful implementations include structural, strain and thermal testing; dynamic testing (vibration and acoustics); and mixed sensor applications. It is scalable from benchtop to multi-chassis distributed data acquisition systems using the same simple-to-use solution.



Integration Partner

SYSTEM INTEGRATION & VISION

UEI No.: RLBZMQ2W6NW8 • NAICS Codes: 541330, 541511 • CAGE Code: 68RU5 • SAM Active

PSC Codes: AC31, AC32, AC35, AJ15, AN11, AR15, H270, H999 • SBE Certified • Accepts Credit and Purchase Cards

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