

Custom Hardware Fabrication

Turn-Key Test and Measurement Solutions Built and Validated Under One Roof

SINGLE SOURCE DESIGN, FABRICATION, AND ASSEMBLY OF AUTOMATED TEST EQUIPMENT

V I Engineering's new corporate headquarters includes a 3,000 sq. ft. hardware-build facility. This advanced production and assembly area means single source planning and execution of turn-key testing solutions. By adding hardware design and fabrication experts to our proven team of software developers and project managers, projects stay under one roof, greatly improving quality and dependability. By extending our development process to hardware engineering, the difficulties of change management, configuration management and documentation are made simple.

PROJECT SPECTRUM

- ◆ Fabrication and Assembly of High Channel Count, Low Noise, Automated Test Equipment
- ◆ Vision Inspection and Vision Based DAQ Systems
- ◆ Concept Development and 3D Design Visualization
- ◆ Custom Designed Circuit Boards and Electronic Sub-assemblies
- ◆ In-house Verification and Validation

ONE SOURCE FOR TURN-KEY RESULTS

Expert hardware fabrication, award winning software development and PMI certified project management, all under one roof means complete test and measurement systems delivered on-time, on-budget with the lowest possible "Total Cost of Ownership."

BETTER PROJECT CONTROL, BETTER QUALITY CONTROL

With both hardware and software development following our CMMI based process, and one customer-focused project manager overseeing the entire effort, errors are minimized and quality is guaranteed.

DESIGN & PROTOTYPE APPROVAL BEFORE PRODUCTION BEGINS

Formal client approval is required by our development process at several key project milestones. In-house design visualization and prototyping help that quality and functional expectations are achieved.



HARDWARE CAPABILITIES

MECHANICAL

- ◆ Rack Layout
- ◆ Bed of Nails and Mechanical Fixtures
- ◆ Interface Test Adapters (ITA)
- ◆ Six (6) Axis Motion Control Systems
- ◆ Solid Modeling
- ◆ Panel Build
- ◆ Wire Harnesses

ELECTRICAL

- ◆ PCB Design
- ◆ FPGA Design
- ◆ Hardware Monitoring Boards
- ◆ Electronic Load Boards
- ◆ Signal Conditioning Boards
- ◆ Self Test Adapters
- ◆ Reconfigurable I/O with National Instruments FPGA on cRIO

VISION

- ◆ Product Inspection
- ◆ Process Monitoring
- ◆ Data Acquisition
- ◆ Lighting Systems
- ◆ Camera and Lens Configuration



Complete Test and Measurement Solutions that Exceed Expectations

VI Engineering

VI Engineering is an experienced systems integrator that provides automated test and measurement systems, engineering information management, and LabVIEW productivity tools to Fortune 500 customers in the automotive, life sciences, manufacturing, and aerospace industries. We are also a leading Select Integrator in National Instrument's Alliance program.

VISTA

VISTA is VI Engineering's branded line of software tools, process consulting, and advanced design training that improves programming productivity and quality through the implementation of software engineering best practices for the development, management, and release of LabVIEW and TestStand applications of any size.

Engineering Information Management (EIM)

The Engineering Information Management division of VI Engineering provides software solutions that improve the efficiency of Test Planning, Test Requests, Test Scheduling, Test Execution, Post Test Analysis, and Document Management. Clients experience productivity gains through automation and optimization of business activities, fast, easy access to information and robust data analysis.

Locations

VI Engineering's corporate headquarters is located in Farmington Hills, MI, with engineering offices located in White Bear Lake, MN, and Indianapolis, IN.

Corporate Offices

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For more information visit our new web site at viengineering.com