



Quality Products, Reliable Services, Good Value

# Medical Device Testing Systems

Complete Test and Measurement Solutions from Design to Delivery

## **ADVANCED TEST AND MEASUREMENT SYSTEMS INTEGRATION**

VI Engineering provides high quality, automated test and measurement systems. With sustained growth over 12 successful years, VI Engineering has delivered the results that medical device, life science, and manufacturing customers demand.

VI Engineering integrates advanced programming skills and state-of-the-art hardware design knowledge with an expert understanding of the test and measurement domain.

Capable of handling projects of any size, VI Engineering offers flexible and scalable services that are designed to meet specific budget requirements, while delivering maximum customer ROI.

VI Engineering's multi-location operations also deliver technical problem-solving, advanced training, and customer support on a short or long term basis.

With over 1000 projects completed for clients in diverse industries, VI Engineering's expertise is uniquely positioned to analyze, develop, implement, and deploy your next test and measurement system.



*Medical Device Testing is One of VI Engineering's Primary Areas of Expertise*

### **KEY BENEFITS**

- ◆ Over a decade of success providing virtual test and measurement solutions that earn repeat business
- ◆ Adherence to advanced professional software engineering standards including CMMi, CSIA, and IEEE
- ◆ Talented team of highly qualified engineers and scientists, committed to providing dependable, innovative solutions that maximize customer ROI

### **TESTING EXPERTISE**

- ◆ Specification Development
- ◆ Design Validation/Product Validation
- ◆ Mechanical Components
- ◆ Vision Inspection
- ◆ Electronic Components
- ◆ Power Sources
- ◆ End-of-Line Functional Testers
- ◆ Production/Test Data Capture
- ◆ Automated Analysis and Reporting
- ◆ Test System Validation/Verification

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# Complete Test and Measurement Solutions that Exceed Expectations



## Industry Experts Applying Advanced Technology

V I Engineering's talented staff of industry experts deliver solutions that address the complete spectrum of technical requirements.

V I Engineering readily combines software with custom designed or COTS hardware, to provide complete, fully functional, and proven turnkey systems. V I Engineering's software expertise encompasses the most powerful development platforms available including: LabVIEW™, TestStand™, Visual Basic, and C/C++.

## System Build

V I Engineering provides fully-integrated hardware and software solutions that include R&D test racks, validation test machinery, and assembly line stations for both test and process control applications.

## Software Development

V I Engineering can supply highly trained and certified software engineers to help review current architecture, conduct code reviews throughout the software development process, or deliver a turn-key solution.

## Technical Problem Solving

V I Engineering's highly skilled, cross discipline team of degreed specialists in physics, materials, chemical, mechanical, electrical and control engineering, are available to help solve challenging technical problems before software programming begins.

## Rapid Response Programming

For customers who are experiencing resource overload, need to augment their teams for major projects, or trouble shoot on a crash assignment, V I Engineering offers highly flexible, short lead-time software services.

## Software Training

As leaders in the test and measurement community, V I Engineering began providing advanced application development training for LabVIEW users in 1999. The course was integrated into NI's "Customer Education" program in 2003 and is now the most advanced LabVIEW curriculum offered. In 2003 V I Engineering introduced "Systems Design with GOOP," the first LabVIEW based course on Graphical Object Oriented Programming.

## V I Engineering

V I 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 V I 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 V I 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

V I Engineering's corporate headquarters are located in Farmington Hills, MI. with engineering offices located in White Bear Lake, MN. Indianapolis, IN. and Santa Monica, CA.

### Corporate Offices

37800 Hills Tech Drive  
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