



G Systems Technical Services

G Systems specializes in the design and development of custom automated test, control, and data acquisition systems. Our engineering solutions vary from hourly project consulting to custom turn-key systems. G Systems' technical team is experienced in all phases of system development. We are experts in advanced system architectures and techniques ideally suited to test and measurement systems across many industries and applications. From the small to the complex, G Systems consistently delivers quality solutions that meet customers' aggressive performance, cost, and schedule requirements.

Experience

G Systems engineers are familiar with advanced system architectures and techniques ideally suited for test and automation systems in many different industries. We partner with our customers to leverage our experience and knowledge of data acquisition and automated test and measurement, allowing our customers to focus on their core competencies.

Leadership

No formal specification or requirements document is required. Our system architects will work with you to gather and define all requirements. Use our expertise to lead you through developing requirements documents and project specifications to meet your schedule and budget.

Feedback/Support

Our Project Managers stay in close contact with our customers to ensure systems are delivered on schedule and within budget. Our internal tracking system allows us to quickly determine how change requests will affect cost/schedule to aid our customers in prioritizing changes as a project progresses.

Technology

Strong relationships with key software and hardware instrumentation vendors expedite the resolution of equipment or software tool issues. Our participation in industry beta programs keeps us actively involved and contributing to the latest technology on behalf of our customers.

Consulting

G Systems consultants and engineers provide expert guidance, strategy, and direction so you can make the most efficient use of limited time. Our engineers average over 10 year of experience and are familiar with a wide variety of applications and solutions. We offer fresh and valuable insight leveraging over 100 years of cumulative cross-industry experience.

“ We wouldn't have accomplished our goals without G Systems. We have and will continue to count on their expertise. Thanks for a job well done.”

Mark Dewitt, Test Engineering Supervisor, Nokia

Engineering Process

G Systems' technical staff is experienced in all phases of system development. We work closely with our customers as we execute each phase of the engineering process:

- Project Management
 - Requirements Definition
 - Functionality
 - Performance
 - Specifications
 - User Interface Prototype
 - System Drawings
 - Critical Design Reviews
 - Implementation/Construction
 - System Integration
 - System Validation/Verification/Acceptance
 - Training
 - Installation/Delivery
 - Warranty and Maintenance Support
- Interfaces
User, Electrical, Mechanical
 - Data/Report Formats
 - Test Plans

System Integration & Consulting Expertise

System Architecture

- Hardware
 - Mechanical Fixturing
 - Electrical Cabling
 - Custom Packaging
 - Rackmount
 - Ruggedized
 - Portable
 - Data Acquisition/Signal Conditioning
 - PXI
 - VXI
 - VME
 - GPIB
 - SCXI
 - Switching
 - General/Matrices/Optical
- Software
 - Languages
 - LabVIEW & LabVIEW RT
 - LabWindows/CVI
 - C/C++/C#
 - .NET
 - Visual Basic
 - Graphical User Interface
 - Data Storage/Analysis
 - Test Executives – TestStand
 - Database Interface/SQL
 - Report Generation
 - Automated Installation
 - Instrument/IVI Drivers
- Remote Distributed Systems - Multiple Locations

Process Control

- Motion Control
- PID and other control algorithms
- HMI/SCADA
- Auto-Calibration and Self-Test
- Statistical Process Control

Data Analysis

- Sound/Vibration
- Signal Processing
- Vision and Imaging

Communication/Networking

- Ethernet
- ActiveX/COM
- GPIB/Serial
- Fieldbus
- Mil-STD 1553/ARINC 429
- IEEE 1394a/b

Synchronized Digital Video

On-site Installation/Training

- Custom Project Jump-Start Training
- Post-Installation Training
 - Operator/Manager/Maintenance

Documentation and Follow-On Support

- Complete Documentation Package
 - System Design Documents
 - Mechanical Drawings
 - Electrical Drawings
 - Software Architecture Design
 - User Manual
- Warranty
 - Complete system warranty on hardware and software



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Printed in the United States of America.
 05-07

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