



ENGINEERING & SERVICE SOLUTIONS

**WE ARE THE SOLUTIONS PROVIDER TO MEET
YOUR INDUSTRIAL AUTOMATION NEED**

Serving These Industries & Others

**Pharmaceutical •
Biotech**



**Water •
Wastewater**



**Power •
Alternative Energy**



**Oil •
Refinery**



**Heat Treatment •
Metals**



**Food • Beverage •
Consumer Products**



**Government •
Education**



**Gas Pipeline •
Midstream**



**Chemical •
Manufactured Gases**



What Solutions Does NSI Provide?

Cyber Security Services – In partnership with Belden, manufacturer of Tofino – a leading industrial firewall – NSI can design & implement a state-of-the-art cyber security defense solution.

Installation & Configuration – NSI has an extremely experienced installation team for both control wiring & piping installation, & on-site configuration.

System Design – NSI provides electrical & pneumatic control design, as well as panel design & build in our on-site panel shop.

Machine Monitoring – NSI's years of process & machine monitoring experience, along with our relationships with leading vibration & temperature monitoring suppliers, makes us a perfect choice for your machine monitoring need.

Safety Systems – Gas detection & hazardous area classification / protection are just a few of the safety solutions NSI can provide.

Instrument & Valve Calibration – NSI offers calibration services for the control & process instruments it provides, making NSI a one-stop shop for your instrumentation needs.

Process Control – NSI provides installation, configuration & integration for new, retrofit & upgrade systems.

Data Acquisition & Data Integrity – NSI provides innovative ways to capture & store your vital data, an essential capability for compliance with regulatory authorities including 21 CFR 11.

Industrial Networking – NSI can determine the best way to communicate data to where you need it. Solutions for your control systems include wired, wireless & fiber networks with an emphasis on cyber security.

Project Management – Let NSI team with you to help manage your project so that it is on time, within scope & on budget.

IQ/OQ Documentation Preparation & Execution – NSI has extensive experience in the preparation & execution for your validation documentation.

Engineering Features

- Turn-key Engineered Solutions
- Application Assistance
- Industrial Networking Design
- On-Site Product Evaluations
- Electrical Design
- Consulting
- Radio & Cell Modem Surveys
- Product Selection
- Parts Procurement
- HMI Development
- PLC Configuration
- Custom Protocol Conversion
- Controller Configuration
- Project Management
- Drawings & Documentation
- Panel Construction
- Installation & Wiring
- On/Off-site Technical Training
- Technical Support

Service Features

- 24/7 Service Contracts
- Instrument & Valve Calibration
- Device Configuration
- Parts Procurement
- Repairs for Most Instrument Products
- Instrument & Valve Replacement Quotes
- Troubleshooting Instrument Signals
- Gas Chlorination Repair & Sales
- Regulatory Reports with NIST Traceable Test Equipment
- Fiber Optic Cable Testing
- 900 Mhz Interference Testing
- Technical Support



NSI Expertise

Communications (Modbus & Modbus/TCP, Ethernet/IP, DH+, DH485 & RIO, RS232, Profibus)

Control System / Data Acquisition – Design, Building, & Installation (RedLion, Eurotherm)

Cyber Security (MTL / Belden Tofino)

Electrical Mechanical Design (AutoCAD)

HMI (Red Lion, Eurotherm, Proface, Panel View, GE QuickPanel, Factory Talk View ME, Qlarity, Allen Bradley, PanelView, AutomationDirect, Red Lion, Omron)

Motion (Pacific Scientific, Trio Motion, Allen Bradley, AutomationDirect)

Panel Design & Building

PID Control Tuning & Programming (Allen Bradley, Eurotherm, Opto22, National Instruments, GE, Siemens, Omron, Modicon, Rockwell. RS500, Horner, AutomationDirect)

PLC / DCS Programming (Eurotherm, Foxboro, Rockwell/Allen Bradley, Modicon, Horner, Omron, GE, AutomationDirect)

Process Instrumentation (Flow, Temperature, Pressure, Gas Analysis & Leak Detection)

Protocol Conversion (Modbus TCP, Modbus RTU, RS232, RS422, RS485, BACnet, Ethernet IP)

Radio (Elpro, Phoenix, Banner, MDS)

Recorders (Chessell, Yokogawa)

SCADA (Iconics, Wonderware, Intellution, Factory Talk View SE, Labview, RSView, Citect, AutomationDirect)

Wireless Spread Spectrum & Cellular Radios / Modems (Elpro, Sixnet, Red Lion, Sierra, Hirschmann)

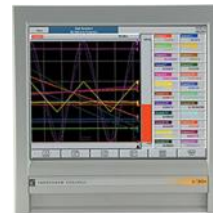
Levels of Expertise To Suit Your Need

Level 1 – Calibrations, Repairs & Installations

Level 2 – Instrumentation / PLC / SCADA Design, Electrical Design, Drawings & Panel Building

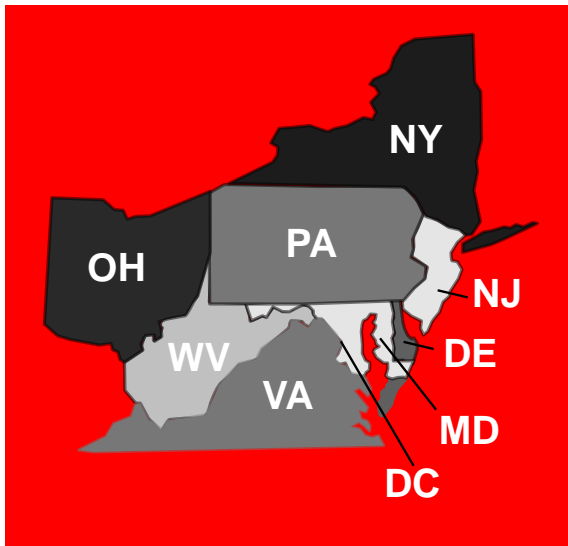
Level 3 – Process / Plant Engineering & Project Management

Level 4 – Control Engineers with Background in Industrial Networking, Cyber Security, PLC / SCADA & Instrumentation



Our Service Region

While primarily focused in the mid-Atlantic region, NSI has nonetheless successfully completed projects throughout the continental United States including California, Iowa, Louisiana, Florida, Michigan, and South Carolina.



Contact Us



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Why NSI?

NSI has been in business for 30 years, delivering hundreds of projects throughout the USA. We have an incredibly customer-focused approach in both our engineering & service groups. Our team regularly goes above and beyond the standards expected from other engineering companies.

NSI will help you solve your automation and instrumentation needs and then keep your plant running through our advanced services program.



**Flexible Service
Agreement Options**