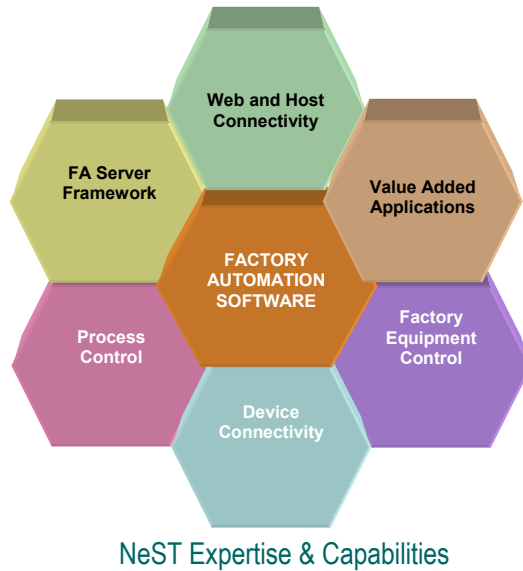


# Factory Automation

The convergence of automation, computing and communication technologies has made the factories more efficient, operator friendly and open to address the needs of efficient, agile and open factories to support collaborative production needs of today's market.



## Device Connectivity

### PLCs

Allen Bradley-  
Micrologix, SLC500, PLC5 and the  
Controllogix

### Protocols

Ethernet I/P, CIP (Control and  
Information Protocol), AB Ethernet,  
Half and full duplex DF1 protocol,  
TCP/IP, Bluetooth, CAN,

### Interfaces

IEEE1394, USB, RS232 /485, I2C,  
PCI/PCMCIA, ISA/EISA.

## Factory Equipment Control

### Analysis Tools

Real-time trending, historical  
trending, Report generators, etc.

### Monitoring Applications

Process overviews, Mimics, Bar  
graphs, Alarm message display and  
log management, soft logic  
configuration etc. for various FA  
packages. .

### Remote Management

Embedded Web Servers,  
WebSCADA

## Production Line Automation Framework

- An FA Suite from NeST

### Semiconductor Wafer Processing Equipment Automation

A framework product for equipment control in wafer handling equipments. The product reduces the application development time for a cluster tool or standalone process module. It is also with job scheduling, recipe management and industry standard (GEM) host connectivity

### High-speed electronic component assembly line automation

A customized version of NeST's equipment automation framework was successfully used to monitor and control the high-speed electronic component assembling machines. This solution can improve productivity in electronic component assembly line machines such as pick and place machines, glue dispenser etc.

## Selective Projects

- Serial Communication drivers (for Half Duplex and Full Duplex protocols) using DF1 protocol
- Ethernet Communication drivers using Ethernet/IP & CIP,AB Ethernet protocol
- Gateway Manager with embedded web server/SNMP/SMTP functionalities for Power systems controllers
- CAN Drivers for Medical Electronics devices
- CAN- Bluetooth Gateway for Automotive Diagnostics
- Windows Drivers for High speed Data Acquisition Cards for Ultrasonic measurement system
- Industry Standard product Compliant to 21 CFR Part 11, and other FDA Regulations

## About NeST

**NeST** is a global software solutions and application Development Company with strong domain knowledge of Industry Automation, Real-Time Systems, Embedded Systems, Consumer Electronics, Avionics, Healthcare, Broadband and Networking & Telecom industry segments. NeST provides total solutions to Hi-tech industries right from hardware designing to integrated software application development. NeST is certified at ISO 9001 and was the 19<sup>th</sup> company globally to be assessed at SEI CMM Level 5. NeST approach to quality has been continued with initiatives in CMMI and Six-Sigma techniques

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