

Automation & Controls

Nova-Tech Engineering has broad experience with automation, motion control and fabrication of electrical/electronic components, in addition to over 30 years of mechanical engineering experience.



Applications

Machine Tools: Controls for new equipment or upgrades to existing equipment

Align & Position Systems: Laser alignment, coordinated, multi-axis positioners

Automated Assembly: Multi-function CNC drill heads, custom machine tools, holding fixtures for automation

Transporters: Vehicles for moving assembly lines, guidance systems, special use

Systems Integration: Vision systems, edge and gap measurement, data logging for SPC



Motion Control

CNC: Setup and controls programming for Fanuc, Siemens

Servo: Setup and programming for Siemens, Galil, Yaskawa

PC: Galil, SmartMotor



PLC

Programming: Setup and programming for Allen-Bradley Rockwell, Mitsubishi Electric, Koyo, Square D, General Electric

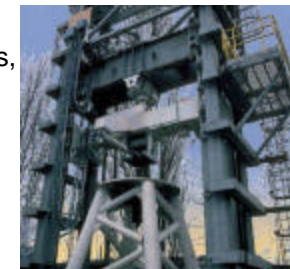
Integration: Custom integration with PC, CNC, Servo, hydraulic and pneumatic systems



Hydraulics and Pneumatics

Hydraulics: Test benches, specialty fixtures, drives, remote sensing and operation, PLC integration

Pneumatics: Sub-system air logic, drives, PLC integration



Software Development

C/C++: Interfaces and controls

Visual Basic: System interfaces and GUI development

CATIA IUA: Direct CNC interface from CATIA

Delmia: Customization and interfacing for IGRIP

Networks: DNC factory networks, RF networks, office networks, common bus protocol

