



Areas of Expertise

Engineering

- Electrical Engineering
- Mechanical Engineering
- Machine Design
- Control System Design
- Pneumatic Systems Design
- Hydraulic Systems Design
- Servo & Stepper Systems Design
- Custom Assembly Systems Design

Measurement

- Laser
- Optical
- Mechanical
- High Precision

Material Handling

- Conveyors
- Pick & Place
- Loading & Unloading
- Custom Fixtures
- Marking Systems
- Vibratory Feed Systems
- Custom Part Assembly
- Custom Tape Application

Testing Systems

- Precision (Micro-Ohm) Resistance
- Fixtured HIPOT (6KV) Tester
- Pressure-Decay Leak Testing

Vision Systems

- PC Vision
- Smart Camera Vision
- Smart-Camera Integration
- Custom Vision Algorithms
- Vision-Motion co-ordination
- Vision-Based Part Inspection

Computer Software

- Bare PCB Net Extraction
- Automatic Bare Board Fixture Software
- PCB Imbedded Resistor Calculation
- Moving-Probe Tester Download
- Universal Tester Download
- Computer-Aided Bare-Board Rework

Control Systems

- PLC Programming
- PC Programming
- Control Cabinet Layout
- Control Cabinet Wiring
- PID & Temperature Control
- Force Control
- Motion Control Systems
- Motor Control Systems
- Force Measurement Systems
- Thermocouple Placement
- Central Monitoring Systems
- Central Data Collection

See www.gcatech.com/galley.htm for examples of our work
