ADVANCED ENGINEERING + MANUFACTURING SOLUTIONS

Design Engineering
Controls & Instrumentation
Electronic Manufacturing Services
Precision Machining
Testing, Metrology & Inspection
GoEinstein Parts Procurement
Technical Staffing Services

Industries Served: Aerospace, Defense, Energy, National Laboratories, Industrial Automation & Medical

AS9100D Expected 2011
QC-1 Certification by Sandia National Laboratories & Los Alamos National Laboratory

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# MECHANICAL ENGINEERING
- Advanced Design Engineering
- Prototyping/3D Printing
- Design for Manufacturability
- Product Development/Commercialization
- Engineering Consulting
- Finite Element Analysis
- Computation Fluid Dynamics
- Thermal and Structural Analysis
- Obsolescence Replacement
- Reverse Engineering

## Products
- High Velocity Valves
- Continuous Variable Transmission
- Pneumatic Actuator Systems

# ELECTRICAL ENGINEERING
- Advanced Design Engineering
- Design for Manufacturability
- Experimental Processes and Testing
- Engineering Consulting
- Pulsed Power Technology
- Product Development
- Obsolescence Replacement
- Software/Firmware Development

## Products
- Magnetic Sensors
- Control Systems

# CONTROLS & INSTRUMENTATION
- Research and Development
- Industrial Automation
- Engineering Consulting Services
- Automated Control & Manufacturing Processes
- High Performance Data Acquisition Systems
- Measurement & Control Systems
- Design Engineering
- Innovative Products & Services
- Space Power Systems
- Automation
- Embedded Control

## Products
- Fast Shutter & Valves Solutions
- Motion Controls
- Image Acquisition & Image Processing
- Synthetic Instrumentation
- Optical Sensors
- Smart Sensors

# PRECISION MACHINING
- Precision CNC Machining
- Precision CNC Milling 3-5 AXIS
- Electrical Discharge Machining (EDM) to .001” wire
- Sinker Electrical Discharge Machining (EDM)
- Full Manual Shop
- Multiple Lathes - 3 Axis, .125 Diameter up to 18”, Swing up to 18”
- Precision Surface Grinder
- Full Welding Including Exotic Materials
- Class 4 Laser Welder

# ELECTRONIC MANUFACTURING SERVICES
- Full Turn-Key Printed Circuit Board Manufacturing
- Box-Build Assembly
- Surface Mount & Through-Hole
- Quick-Turn Prototypes
- In Circuit, AOI & Functional Testing
- Leaded and Lead-Free Assembly
- Obsolescence Management
- Cable, Wire Harness and Panel Assembly
- Encapsulation & Conformal Coating
- Micro Ball Grid Arrays (MBGA)/X-Ray

# METROLOGY & INSPECTION
- Designated Calibration Source for Sandia National Laboratories
- First Article Inspection/Acceptance Inspection
- Past Verification to 3D CAD Model or Print
- Measurement Standards: ASME B89
- Controlled Room Temperature at 20º C +/- 1º C
- Optimal Inspection Method - Quality, Delivery, and Cost
- Electronic Parts, Test and Measurement Supply
- Procurement Solution
- Several Major Vendors on ONE Website
- Millions of Parts Available

# TECHNICAL STAFFING SERVICES
- Recruitment & Payroll of Contract Workforce for Government and Industry
- Full Spectrum of Personnel for Contract Work in Electronics Manufacturing, Engineering, Administrative, Procurement, and Various Other Technical and Non-Technical
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