

Mechanical Engineering

Parametric Solid Modeling

- 2D-3D IGES Surface Verification

CAD/CMM Surface Resolution

- Finite Element Analysis
- Static & Dynamic Scenarios

Rapid Prototyping

- Stereo Lithography

Rugged COTS & MOTS

- Tactical I/O Device Enhancement
- Electronic Repackaging

Traditional Machining

- CNC Processes

Non-Traditional Machining

- Vacuum Form
- Temperature Processed
- Electric Discharge

Materials & Process Engineering

- Metallic, Non-Metallic, Polymer
- Material Certification & Verification
- Corrosion Analysis
- Non-destructive Inspection Techniques

Applied Mechanics / Physics

- Heat Transfer
- Finite Thermal Modeling
- Heat Dissipation – Rejection
- Bio/Environment
- Electronic Sub-Straight Packaging

Fluid Mechanics

- Laminar & Turbulent Flow
- Hydraulics & Pneumatics
- Vibration & Noise Suppression

Program Management

Process System Integration

- Acquisition Services
- Cost Estimating
- Project Analysis
- Plan Checking
- Project Scheduling

Specification Development

- Operational Instructions
- Technical Training

Installation & Support

- Logistic Planning

Test & Evaluation

- Program Development
- Execution Documentation

Process Integration & Fabrication

- Application Engineering
- Precision Machining & Welding
- CMM Measurement
- Chemical Processing
- Urethane Vulcanizing

Reverse Engineering

- Development of Unique, Obsolete Component Mechanisms
- Laser Modeling to IGES Data

Engineering Development Efforts

- *ARINC Technical Transfer*

*GPS Navigation Systems
Communications Processing
Software Development
Program Management*

*Performance Based -
Service Contract Training*

ISO 9000

Systems Engineering

Navigation

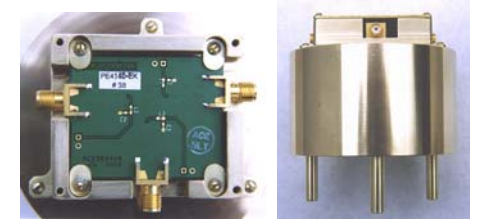
- Legacy and Modernized GPS
- G-WIRED Tactical Simulation

Communications

- Superconducting FR Apparatus
- System Miniaturization
- Rugged Iridium - Voice or Data
- Telephony / VoIP

Research & Development

- Sensor Stabilization Systems
- HTS Interface Systems
- Robotic Prototype Development
- Unmanned Vehicle Propulsion



Design Specification Compliance

- ISO 9000/9001 Reviews
- Original Document Preparation

California Licensed Engineer Review

- CA Standard Seismic Analysis
- Shock & Vibration Analysis
- ASME Pressure Vessels
- Section VIII – Power Piping
- Section III Nuclear

Environmental Process Systems

- Licensed Design Review
- Gas & Water Treatment Processing
- Regulated Process Certification

Forensic Engineering

- Failure Analysis
- Process System Refinement

Professional Certifications



State of California

Licensed Professional Engineer M-31587

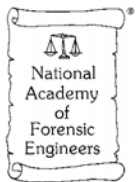
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2004 Consultant Rotation Disciplines:

Mechanical Engineering - California P.E.
Project Management - Staff Extension
Plan Checking A - Comprehensive
Plan Checking B - Public Works
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GSA Schedule GS-23F-0118L
Professional Services SIN 871-3
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