McCORMICK™
STEVENSON

A PALIGEN TECHNOLOGIES COMPANY



SERVING AMERICA'S HEROES,
AS ONLY ENGINEERS CAN

CAPABILITIES

- Weapons, Ammunition, & Energetics
- Missile Components & Launchers
- Ordnance & Materiel Handling

Engineering Services in Support of the Development and Manufacture of Armament Systems

DEVELOPMENT ENGINEERING

- System Engineering
- Product Design
- Analysis & Simulation
- Prototyping & Integration
- Development Test & Qualification

MANUFACTURING ENGINEERING

- Manufacturing Process Development
- Equipment Design & Automation
- Manufacturing Inspection
- Quality Systems
- Technical Publications

DEVELOPMENT ENGINEERING

System Engineering

- Proposal Development
- Requirements Development
- System Synthesis
- Baseline Definition
- Risk Management & Mitigation
- Configuration Management
- Model Based Systems Engineering

Product Design

- Interface Control Documentation
- Concept Development
- Trade Studies
- 3D Solid Modeling
- Drafting & Documentation
- Design for Manufacturing/ Design for Assembly
- Cabling
- Type 2D and 3D Technical Data Packages per MIL-STD-31000

Analysis & Simulation

- Finite Element Methods Analysis
  - Structures
  - Heat Transfer
- Computational Fluid Dynamics Analysis
  - Internal Flows
  - External Flows
- Failure Analysis
- Tolerance Analysis
- Interior Ballistics
- Exterior Ballistics

Prototyping & Integration

- Prototype Fabrication
- Rapid Component Sourcing
- 3D Printing
- System Integration
- Laboratory & Field Integration
- Platform Integration
- Custom Storage & Transport Cases

Development Test & Qualification

- Test Plan Development
- Test System Development
- Structural & Thermal Analysis Correlation
- Test Program Management & Execution

MANUFACTURING ENGINEERING

Manufacturing Process Development

- Floor Plans
  - Development
  - Optimization
- Process Flow
  - Development
  - Machine Configuration
- Process Planning
- Operations Management
- 3D Digital Simulation

Equipment Design & Automation

- Tooling
- Gaging
- Assembly Fixtures
- Test Fixtures
- Process Equipment
- Test Equipment
- Automated Equipment Design & Development

Manufacturing Inspection

- Mechanical Inspection Services
- Turnkey Inspection System Development
- Remote CMM Programming
- On-Site Support

Quality Systems

- On-Site Support
  - Manufacturing
  - Inspection
- Process Optimization
- Measurement Systems Evaluations per DI-QCIC-81960
- Gage Repeatability & Reproducibility
- Statistical Process Control
- Documentation

Technical Publications

- Quality Manuals
- Inspection Plans
- Training Documentation
- Instructions
  - Assembly
  - Work
- Standard Operation Procedures
- User Guides
- Owner Manuals

McCORMICK™
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Focused Technical Expertise

Agility & Timeliness

Small, Non-Traditional Defense Contractor

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