

Engineering Services. Aerospace Design & Testing. SME Consulting

AeroEngineering 4.0 provides aerospace fluid systems and component engineering services and consulting to commercial, military and government aerospace organizations. Our team can augment or serve as your engineering department to increase your bandwidth and expertise. We add value, not overhead.

As a Small Business, AE4.0 is committed to excellence and creating innovative and flexible solutions for our corporate and Federal clients.

What sets AE4.0 apart from the competition?

- Experienced aerospace engineering talent
- Aggressive project management
- Embedded operations
- Customer retains all IP
- Flexible and scalable support
- Domestic, GCC High, ITAR and EAR compliant

CORE COMPETENCIES

Our subject matter experts and project management professionals support our corporate and federal clients in the areas of:

- SME Consulting
- Engineering Services
- Aerospace Design

SME Consulting

Our SME Consulting Services focus on supplementing an organization's existing engineering knowledge base. By bringing their extensive aerospace engineering experience to bear on your complex problems, we can help you stay ahead of the competition and better serve your customers. Our aerospace fluid systems SMEs provide assistance with

- Risk assessment and design review
- Troubleshooting and Failure Analysis
- Analysis (dimensional, FEA, CFD, MTBF)
- Proposal generation and review

Engineering Services

Our Aerospace fluid systems and component Engineering Services focus on supporting client needs for additional technical bandwidth. Our vertically integrated engineering team can offload and manage entire projects or simply supplement any gaps in your existing capacity. Our engineering services include;

- New Product Development
- Sustaining or Legacy engineering of mature product
- Technical management of source-controlled items
- Engineering systems (Stage Gates, Configuration Control)
- Product Improvement and Retrofit
- Routine support (Scanning, CAD detailing, ECOs)
- Technical publications
- Product Verification and Validation testing and support
- Model based definition
- Design for manufacturability / producibility

Aerospace Design

AE4.0 can act as your 'special ops' force, called in as needed to deploy our extensive experience and understanding in aerospace fluid systems component design.

Many companies these days choose to focus on their core strengths and outsource certain business processes. If you choose to go that route, AeroEngineering4.0 can help you in the following areas;

- Flight controls, lubrication, cooling, fuel, cryogenic
- Valves (relief, regulating, solenoid, shut-off, check, shuttle)
- Pumps (gerotor, impeller, piston, gear)
- BLDC motor, BLDC controller and flight software
- Electrohydraulic Servovalves
- Integrated manifolds
- Filtration
- Casting design and producibility
- Hands on throttle-and-stick



Major Clients



North American Industry Classification System (NAICS)

- 541330 – Engineering Services
- 541690 - All Other Professional, Scientific, and Technical Services
- 336412 – Aircraft Engine and Engine Parts

Applications & Services

AE4.0 has extensive experience developing and sustaining Aerospace fluid systems and components for the following platforms:

- F-35 Joint Strike Fighter
- Boeing 787 Dreamliner
- F-22 Raptor
- Many regional and commuter jets
- V-22 Osprey
- FARA Concept
- CH-47 and derivatives

AE4.0 has extensive experience developing and sustaining Aerospace fluid systems and components:

- Clutch actuation integrated manifold new product design
- Main engine lubrication pump redesign

- Lubrication system multifunction valve design
- Gearbox lubrication pump and valves
- Lubrication relief valve
- Multiple pump casting technical procurement
- Servovalve torque motor magnetic FEA
- Scanning of legacy 2D drawings
- REACH declaration for lubrication pumps, cooling pumps and in cockpit printers

COMPANY PROFILE

Federal Certification & Designations

- SBA Small Business designation

Contract Vehicles

- None currently

State Certifications & Designations

- Colorado PTAC/APEX Accelerator member

General Information

Registered Company Name	Nickerson LLC
D.B.A	AeroEngineering4.0
Year of Incorporation	2016
State of Incorporation	Colorado
DUNS	080330688
CAGE	8GYH3

Contact Information

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