



## **Kestrel Group**

505 John Ross Court  
Pelzer, South Carolina 29669

Jon V. Moldovan Sr. [jmoldovan@kstrl.com](mailto:jmoldovan@kstrl.com)  
Tel: (864) 918-2416 Fax: (864) 243-9706



## **UST Technologies**

555 John Ross Court  
Pelzer, South Carolina 29669

Mark Schnee [mschnee@usttechnologies.com](mailto:mschnee@usttechnologies.com)  
Tel: (864) 243-5100 Fax: (864) 243-9706

# **KESTREL GROUP AIRCRAFT CERTIFICATION, ENGINEERING, MODIFICATIONS AND CUSTOM DESIGN**



## **Aircraft Certification & Engineering**

We are proud to provide customized engineering and certification services in support of the unique needs of corporate, fractional, head-of-state, military and general-aviation owners and operators worldwide.

Our certification & engineering team is structured around a core group of highly qualified aerospace professionals who are among the best in the industry. They possess the specialized skills, training and qualifications to get the job done. Our highly skilled

engineering staff uses powerful 3D computer aided design (CAD) technology and innovative applied design practices to provide customized solutions to complex projects involving completions, modifications, equipment installations and repairs. Our engineering capabilities incorporates quality assurance, certification, regulatory compliance, prototype design, fabrication, system & equipment integration, avionics, cabin furnishings, airframe structures, safety and egress.

## **(CE) Certification Engineers**

Certification Engineers (CE's) are available to manage the certification process and coordinate related engineering activities typically associated with major alterations, modifications and repairs. CE's evaluate, review, develop and assemble aircraft certification data packages used to demonstrate regulatory compliance and subsequent approvals.

Certification engineers (CE's) are high level aircraft technical advisors and inspectors who have a demonstrated background in complex engineering projects, alterations, modifications, and repairs. Certification engineers are typically graduates of an accredited aviation trade school, technical college or university and are certificated by the (FAA) Federal Aviation Administration as Airframe & Powerplant mechanics. CE's receive specialized individual training and practical experience which enables them to make subjective decisions and airworthiness determinations. Our senior certification engineers hold FAA inspection authorization and are experienced in the development of (STC's) Supplemental Type Certificates, field approvals, conformity and regulatory compliance while working closely with FAA principal inspectors.

## **FAA (DER) Designated Engineering Representatives**

Designated Engineering Representatives are available to support engineering projects involving structures, damage tolerance, fatigue, electrical, systems & equipment, flammability, flight analyst and flight test. Our consolidated team of designated engineering representatives are authorized by the (FAA) Federal Aviation Administration to provide engineering data approval to support your aircraft modification and alteration needs.



## Kestrel Group

505 John Ross Court  
Pelzer, South Carolina 29669

Jon V. Moldovan Sr. [jmoldovan@kstrl.com](mailto:jmoldovan@kstrl.com)  
Tel: (864) 918-2416 Fax: (864) 243-9706



## UST Technologies

555 John Ross Court  
Pelzer, South Carolina 29669

Mark Schnee [mschnee@usttechnologies.com](mailto:mschnee@usttechnologies.com)  
Tel: (864) 243-5100 Fax: (864) 243-9706

## FAA (DAR) Designated Airworthiness Representatives

Designated Airworthiness Representatives are available to support export and import of aircraft, parts and products. Issue special flight permits, recurrent airworthiness certificates, provide conformity & compliance inspections and experimental airworthiness certificates.

## Capabilities



Aerospace is a truly global industry and in order to compete in the future as a leader in technology we embrace challenge by providing our customers with a comprehensive range of aircraft certification and engineering services worldwide. Among the services provided are specialized contract consulting, project management, fixed & rotary wing modifications, prototyping and discrete research & development on civil, military and governmental aircraft. Our ability to provide cost effective and innovative solutions to technology challenges is enhanced by our

industry experience and ability to focus on project specific certification plans. Our people and the trusted relationships we have developed over the many years working with foreign and domestic governmental authorities who regulate the aerospace industry are the primary key to our success.

[Gulfstream GII](#)  
[Learjet 31-35 series](#)  
[Raytheon Beechjet 400 series](#)  
[Raytheon Hawker 700 series](#)  
[Raytheon Hawker 800 series](#)  
[Cessna Citation 5 series](#)  
[Piaggio Avanti P-180](#)  
[Bell 206 Jet Ranger](#)  
[Boeing PT-17 Stearman](#)  
[Pilatus PC-12](#)

[Raytheon Beech 90, 100 series](#)  
[Raytheon Beech 200-300 series](#)  
[Raytheon Beech B300-1900 series](#)  
[Raytheon Beech C-12, RC-12 series](#)  
[Raytheon Beech C-12J & U-21 series](#)  
[Cessna 150-152-172-195-210 series](#)  
[Piper PA-18-31-41-42-46 series](#)  
[Robinson R-22 Beta](#)  
[Bellanca Super Viking](#)  
[C-23 Sherpa](#)

## Special Programs

Our special programs involve development of Federal Aviation Administration Supplemental Type Certificates (STC'S) and Federal Aviation Administration field approvals where appropriate to cover major modifications or alterations. Trusted, working relationships have been established with the Federal Aviation Administration at local, regional and directorate levels.



- **Structural design, modification, repair and analysis**
- **Systems & Equipment modification, testing and analysis**
- **Primary, Secondary and Interior Structure**
- **Antenna, Harness and, Pressure Vessel Penetrations**
- **Avionics Installation support services**
- **Interior furnishings, cabinetry and custom design**
- **IFE In-flight entertainment equipment design/integration**



## Kestrel Group

505 John Ross Court  
Pelzer, South Carolina 29669

Jon V. Moldovan Sr. [jmoldovan@kstrl.com](mailto:jmoldovan@kstrl.com)  
Tel: (864) 918-2416 Fax: (864) 243-9706



## UST Technologies

555 John Ross Court  
Pelzer, South Carolina 29669

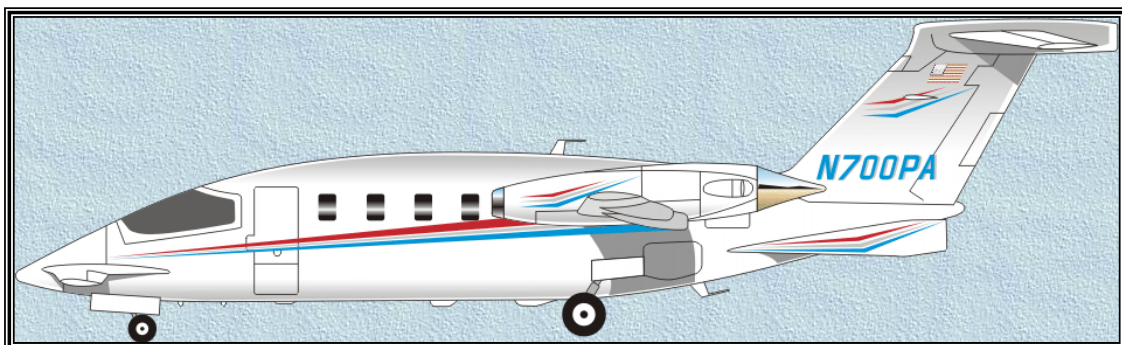
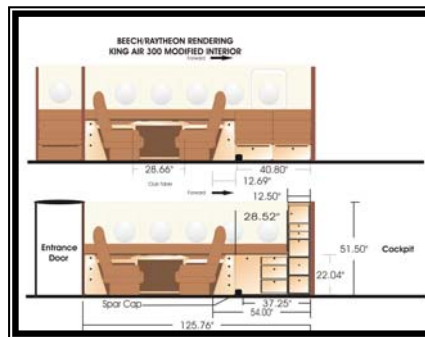
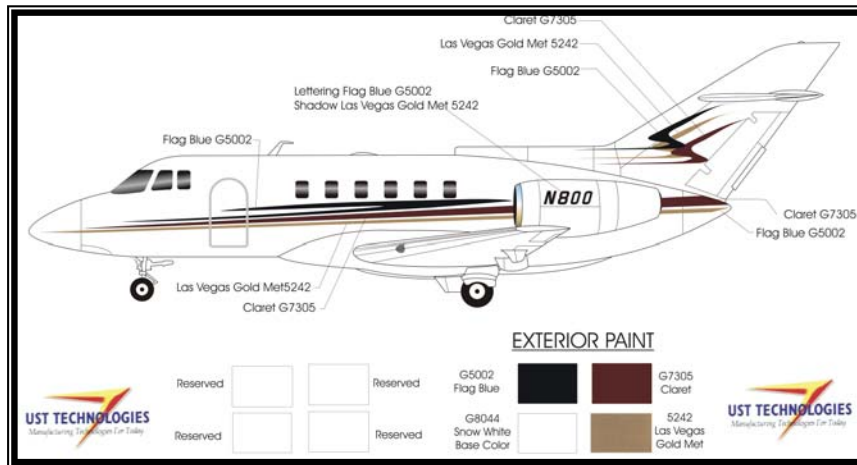
Mark Schnee [mschnee@usttechnologies.com](mailto:mschnee@usttechnologies.com)  
Tel: (864) 243-5100 Fax: (864) 243-9706

### Damage Tolerance/Fatigue

Analysis is accomplished by specially authorized aerospace engineers who use Federal Aviation Administration approved damage tolerance methodologies for pressure vessel penetrations.

### Aircraft Renderings (Paint & Interior)

Elegant color combinations express your personality and distinguish your aircraft from others. Our designers, using the latest in computer-aided design software, translate your exterior paint preferences into actual renderings to match your aircraft's profile. Interior floor plan, layout, configuration and cabin furnishings design services are also available.





## Kestrel Group

505 John Ross Court  
Pelzer, South Carolina 29669

Jon V. Moldovan Sr. [vmoldovan@kstrl.com](mailto:vmoldovan@kstrl.com)  
Tel: (864) 918-2416 Fax: (864) 243-9706



## UST Technologies

555 John Ross Court  
Pelzer, South Carolina 29669

Mark Schnee [mschnee@usttechnologies.com](mailto:mschnee@usttechnologies.com)  
Tel: (864) 243-5100 Fax: (864) 243-9706

# **UST TECHNOLOGIES MANUFACTURING, ENGINEERING, DESIGN, FABRICATION OF PARTS & ASSEMBLIES**

**UST Technologies, Inc.** is housed in a modern facility of more than 30,000 square feet on 5.5 acres of property ready for expansion. To date, our revenues have doubled each year we've been in business, much of it due to seven management best practices, a mantra for UST's internal continuous improvement program:



- Experience level - Management Team Averages 26 Years
- Experience Diversity - Over 300 Projects, Scores of Applications
- Technology Transfer - Reuse of Ideas, Designs From Other Applications
- Re-deploy Existing Capital Assets - Rebuild, Refurbish Wherever Possible
- Fast Turnaround of Projects - 6 to 12 weeks, on the average
- Performance Philosophy - Creative, Outside-the-Box Thinking
- Management Philosophy - Tight Controls & Continuous Improvement

UST is an engineering-led designer and manufacturer of automated manufacturing processing systems, parts and assemblies, customized to client requirements and specifications. Our expertise focuses on most all formats of the **materials-intensive** manufacturing, fabrication and assembly industry.

- Complex, Precision Tools, Fixtures, Parts & Assemblies
- Develop New Work Processes
- Re-engineering and Rapid Prototyping

## **Commercial Experience and Best Practices Applied to Military Initiatives**

UST is now engaged in applying successful commercial-world technologies, processes, methods and business tactics to more quickly and efficiently delivering critical parts and assemblies to our military and government clients at a fair price.

**UST Technologies is recognized as a U.S. Navy Seaport-e Prime Vendor** Strategic Teaming Agreements place our team's services in nearly all zones in the country. Our "extended family" offers services in the following areas:

- Aircraft Inspection, Maintenance, Repair & Testing Services
- All Other General Purpose Machinery Manufacturing Services
- Computer Systems Design and Related Services
- Engineering Services
- Industrial Design Services
- Iron and Steel Forgings
- Material Handling Equipment Manufacturing
- Metalworking Machinery Manufacturing
- R and D in the Physical, Engineering, and Life Sciences





## Kestrel Group

505 John Ross Court  
Pelzer, South Carolina 29669

Jon V. Moldovan Sr. [jmoldovan@kstrl.com](mailto:jmoldovan@kstrl.com)  
Tel: (864) 918-2416 Fax: (864) 243-9706

- **We use the latest in 3D Mechanical Design Software**
  - Autodesk 3D Inventor
  - Solid Works
- **File Translation Software for**
  - Solid Works
  - Pro E
  - Catia 4
  - Catia 5
- **Our (2) facilities total more than 30,000 sq ft**
  - Fabrication
  - CNC Machining
  - CMM Inspection
  - Panel Build
  - Assembly / Testing / Runoff
  - PLC Controls Program I/O & Servo
  - Robot Programming
  - Vision Application
  - Turnkey Installs
- **To date UST Technologies, Inc. has integrated 72 Robotic Systems in the following areas**
  - MIG Welding
  - Resistance Welding
  - Plasma Cutting
  - Material Handling
  - Palletizing
  - Press Tending Applications

## Customer Base

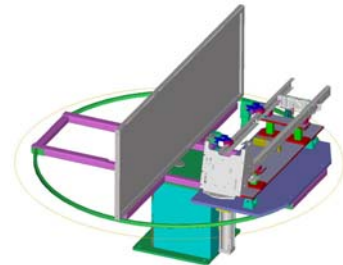
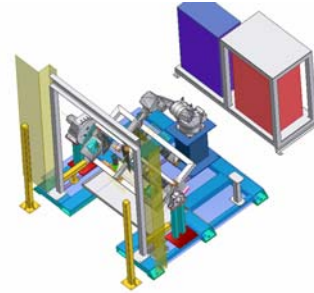
- Lockheed Martin Aerospace
- Piaggio Aircraft
- Hawker Pacific
- Arvin Meritor Emission Technologies
- Arvin Meritor Axle and Drive Division
- Square D Company
- Kubota Manufacturing of America
- Yamaha
- Suzuki
- F&P
- CYC
- Magna Drive
- Magna Marada
- TTAI Toyotetsu
- GE Lighting
- Behr Thermal Systems
- Toyota
- Motoman



## UST Technologies

555 John Ross Court  
Pelzer, South Carolina 29669

Mark Schnee [mschnee@usttechnologies.com](mailto:mschnee@usttechnologies.com)  
Tel: (864) 243-5100 Fax: (864) 243-9706







## Kestrel Group

505 John Ross Court  
Pelzer, South Carolina 29669

Jon V. Moldovan Sr. [jmoldovan@kstrl.com](mailto:jmoldovan@kstrl.com)  
Tel: (864) 918-2416 Fax: (864) 243-9706



## UST Technologies

555 John Ross Court  
Pelzer, South Carolina 29669

Mark Schnee [mschnee@usttechnologies.com](mailto:mschnee@usttechnologies.com)  
Tel: (864) 243-5100 Fax: (864) 243-9706

# AEROSPACE MANUFACTURING AND PROCESS ENGINEERING CONSULTING SERVICES

Our senior managers also perform engineering consulting services to the manufacturing and aerospace industry as well as engineering, design and fabrication shops. Familiar with **Kaizen**, **Business Process Reengineering**, **Six-Sigma**, **Lean** and other process improvement initiatives, our consultants typically use an integrated mix of these techniques, blended with a strong dose of common sense, to customize solutions to a client's business strategies and organizational culture.

- **Requirements Definition & Business Planning**
  - 5-year Executive-Level Strategic Business Strategies, Risk Assessment & ROI
  - 3-year Middle Management Planning & Scheduling
  - 1-year Tactical Processes
  - Long-term planning, Ongoing Continuous Improvement Processes
  - Communications Between Management Levels
  - Competitive Analysis and Future Sales/Marketing Strategies
- **Manufacturing Processes**
  - Customized Mix of Best Practices and Common Sense To Meet Client Requirements and Job Scheduling
  - Plan for Long-term, Ongoing Continuous Improvement
  - Floor-level & Workstation Process Mapping and Effectiveness Analysis
- **Plant Design & Layout**
  - Floor Plan and Machine, Facilities Placement for Maximum Value Throughput, Material Handling, Safety, Efficiency, Quality
- **Inventory and Supply Chain Management**
  - Partnering With Vendors, Suppliers for Just-In-Time Deliveries
  - Design On-line Inventory Management Systems
  - Purchasing and Procurement Strategies, Planning
  - Materials Management, Planning, Scheduling
- **IT Systems Requirement Analysis**
  - Design Integrated Information System to Monitor & Manage All Aspects of Operations
  - Oversee Project Management of IT Systems Development, Installation, Training
- **Engineering Issues**
  - Continuous Improvement for Reducing Engineering Time for Design, Costing
  - Archival Systems for Drawings, Accessibility, Revisions
- **Aviation Program Management Consulting Services**
  - Operational Management – Strategic & Tactical Planning, Goals and Objectives
  - Program Development - Civil, Military, Government, FAA Repair Station
  - Project Management, Contract Performance, GFR and Best Commercial Practices
  - Process engineering analysis, design & flow with focus on aviation operations
  - Process improvement, introduction of new technology, tools and training
  - USDOL registered OJT Program for Aviation Maintenance Technical Personnel
  - Quality Management Programs (QMP), Quality Assurance (QA)
  - Implementation of cultural change within an organization