

DESIGNATED ENGINEERING REPRESENTATIVES (DER)
AeroTEC has DERs on staff including Flight Analyst, Flight Test Pilot, Powerplant, Structures, Mechanical Systems, Electrical System, and more. We utilize our DERs to maximize efficiency in demonstrating compliance to regulations - **giving your project a competitive edge.**

CERTIFICATIONS



Transport
Canada



EXPERIENCE

- Aviation Partners Boeing 737NG Split Scimitar Winglet STC
- Boeing 737-800 Converted Freighter
- Embraer 145ER Brake STC
- Eviation's Alice All-Electric Commuter Aircraft TC
- Honeywell RDR-700 Weather Radar STC
- King Air E90 Winglet STC
- Mitsubishi SpaceJet/MRJ 90 TC
- Surf Air Hybrid & Electric Caravan STC

Learn about AeroTEC's additional experience

King Air E90 Winglet STC



Boeing 737-800 Converted Freighter

CONTACT

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TESTING | ENGINEERING | CERTIFICATION

AEROTEC.COM

AIRCRAFT DEVELOPMENT & CERTIFICATION

Type Certification (TC), Supplemental Type Certification (STC),
Technical Standard Order (TSO) & Parts Manufacturing Authority (PMA)

To get your project off the ground

Mitsubishi SpaceJet/MRJ 90 TC



Customized to fit your needs | Design & Certification | Efficient & Cost Effective

AIRCRAFT DEVELOPMENT & CERTIFICATION

We know what it takes to successfully develop aerospace products. For 20 years we’ve helped companies around the world design, test and certify everything from aerodynamic modifications to clean sheet aircraft. We know what pitfalls and roadblocks await in the aerospace product development process and we can help you navigate them. Our customers count on us to leverage our expertise and past experience to guide their program through this complex process and help them avoid pitfalls along the way.

PRODUCT DEVELOPMENT LIFE CYCLE

AeroTEC’s Product Development Life Cycle can be customized to your project’s needs. We can help you **every step of the way**, or **pick and choose** what you need to help your program succeed.

DEVELOPMENT

REQUIREMENTS & PLANNING

- Technical & Certification Requirements
- Schedule & Resources
- ARP 4754
- V&V Analysis
- Program Planning
- Regulatory Coordination

CONCEPTUAL DESIGN

- Proof of Concept/Prototyping
- Certification, Test & Analysis Planning

SIMULATION & INITIAL VALIDATION TESTING

- Simulation & Analysis
- Wind Tunnel, Lab & Rig, Proof of Concept, Structural and Fatigue Testing

IN-HOUSE CAPABILITIES

AeroTEC offers beginning to end, in-house capabilities and a team with discrete system knowledge & cross-system integration experience to help bring your product forward.

- Engineering Services
- Program Management
- Manufacturing, Modification & MRO
 - AS9100D Certified Manufacturing
 - FAA Part 145 Repair Station Certified
- Special Test Equipment
- Wind Tunnel Models & Testing
- Flight Test Operations
 - 3 Hangars (182,000 sq. ft.)
 - Flight Test & Telemetry
- Flight Test Anywhere
 - AeroTEC operates a mobile telemetry trailer and are able to send employees anywhere in the world to test your project according to its needs

DETAIL DESIGN

DETAIL DESIGN

- Critical Design Review
- System Safety Assessment
- Change Management
- DER Coverage

MANUFACTURING

- Manufacturing
- Special Test Equipment

MRO & MODIFICATION

- Maintenance
- Modification

VALIDATION

VALIDATION TESTING

- Ground & Flight Test
- Instrumentation
- Software Tools
- Telemetry
- Metrology
- Repair Station
- Flight Operations
- Test Logistics
- Ground Support Equipment
- Test Lease Aircraft

CERTIFICATION DELIVERABLES

- Analysis
- Drawings
- Test Reports
- AFMS
- ICA
- Regulatory Coordination
- V&V Closure Evidence

ENTRY INTO SERVICE

PRODUCT SUPPORT

- Low-rate production to support entry into service
- Tech data updates
- Installation deviation approvals

INTEGRATED TOOLBOX

We use a heavily integrated toolbox to **maximize data flow** through our processes and compress our design to manufacture cycle times. Leveraging the latest in cutting-edge tools, we are able to simulate, model, analyze and manufacture in a way that **maximizes value for our customers** and protects overall program objectives.



Captures requirements to ensure production application fit



Models 3D spaces, capturing MBD/PMI data in the process



Leverages parametric and feature-based design to allow rapid iteration



Converts 3D models into manufacturing data



Simple inspection of conformity to design intent



Highlights opportunities for design optimization

ENGINEERING

CORE CAPABILITIES

- CFD & FEM Analysis using FEMAP, STAR-CCM+ & Simcenter
- Digital System modeling using NX & AMESIM
- Flight Sciences
- Reverse Engineering
- Structures Design
- Teamcenter PLM solution to manage design data, control configuration and efficiently handle changes

SYSTEMS ENGINEERING

- Avionics
- Electric Power System (EPS) & Lighting
- Electric Wiring Interconnect System (EWIS)
- Mechanical Systems
- Powerplant & Fuel Systems



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