

Engineering and certification

PROVEN EXPERTISE YOU CAN TRUST

Streamline your program through
our decades of experience



Collins Aerospace



YOUR VITAL RESOURCE FOR ENGINEERING AND DESIGN

At Collins Aerospace, our experienced engineers have the advanced technological competence to design and develop solutions ranging from simple aircraft modifications to full VVIP completions with multiple systems fully integrated.

From conceptual design with 2D and 3D models to fully defined aircraft modifications and system definition, we will see your program through from concept to completion. Our engineering team can provide a broad spectrum of capabilities and experience with a reputation for dedication and unrivaled support for your project.

ENGINEERING CAPABILITIES

- Electrical
- Avionics
- Mechanical
- Structural
- Interior

WELL-CONNECTED, WORLD-CLASS CERTIFICATION AND TESTING

Collins Aerospace holds many FAA, EASA, Transport Canada and other foreign design approvals for aircraft modifications. These established processes and relationships – as well as our in-house designees and experienced engineers – enable us to deliver timely approvals for a range of large or small aircraft.

Several of our global locations hold repair station certificates with the FAA and EASA.

DESIGN CERTIFICATIONS

- FAA/EASA/Transport Canada certification
- FAA Partnership for Safety Plan
- In-house FAA DERs, DARs and DMIRs

- PMA certification expertise
- EASA Form 1 Capability
- FAA consulting services including DER major alteration approval
- Technical documentation
- Structural analysis including finite element analysis and damage tolerance analysis
- Flammability
- Occupant safety

PRODUCT DEVELOPMENT ACROSS THE SPECTRUM

Our well-rounded experience ranges from LED lights and cabin electronics to interior monuments, aircraft doors and mission equipment. The Collins Aerospace team is proficient in design and development software that includes SolidWorks, CATIA (mechanical and harnessing), OrCAD, ASAP, Freescale, Microchip, LonWorks, Visual Studio and AutoCAD and others.

Using our prototyping and expanded in-house testing capabilities can take full advantage of cost savings. We can also manage your development timeline to help ensure your program's success.

DEVELOPMENT EXPERTISE

- DO-160/DO-178
- LED innovation

- Circuit board and power supply design
- Manufacturing engineering
- Quality engineering
- Software engineering
- HALT/HASS testing
- EMC and ESD testing
- Electrical testing

HIGHLY COLLABORATIVE PROGRAM MANAGEMENT

You can rely on the highest level of engineering service with Collins Aerospace. Our program managers and engineers integrate with your design team and serve as an extension of your business for comprehensive program management.

Our in-house team and on-site support personnel work with you from program kickoff through completion, with quick response time and flexibility to ensure the successful execution of your program.



To learn more, go to
→ collinsaerospace.com/STC-Interiors

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