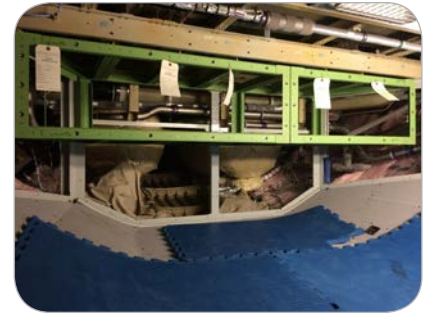


ENGINEERING & DESIGN

CertifyNation feels that by training our engineers in all things certification they design with the regulations in mind. This eliminates parts and designs that are not compliant with FAA or other CAA regulations which increases program efficiency, decreases costs and improves schedules.

Not only will our designs be visually stimulating, but through our stringent engineering review process, they will be optimized for the correct parts and materials. In addition, our assembly and installation instructions are detailed and efficient thus easing substantiation and decreasing installation times.



What We Do

- Structural Mounting Provisions
- Wire and Cable Harnesses
- Harness Routing and Clamping
- Pre-wired Rack Assemblies
- Pressure Vessel Penetrations
- Aircraft Interior Reconfigurations
- Layout of Passenger Accommodations (LOPA)
- Emergency Equipment
- Emergency Escape Path Lighting Configuration
- Carpet Replacement
- Monument Reconfiguration
- Full Interior Compliance
- ARINC Trays and Enclosures
- Custom Parts and Products

How We Do It

- 2D and 3D Mechanical CAD
- 2D Electrical CAD Design
- 3D Digital Prototyping
- 3D Electrical Wire and Cable Harness
- 3D Presentations
- 3D Modeling, Animation and Rendering
- Concept Design and Illustration



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CERTIFICATION & SUBSTANTIATION

CertifyNation develops complete FAA certification packages for any avionics system or retrofit installation. Our relationship with the FAA and various ODAs allows us to decrease costs and improve program schedules.

- System Safety Assessment (SSA)
- Structural Substantiation Report (Including Fatigue and Damage Tolerance)
- Part 26 Compliance Report (AASR and EWIS)
- EMI Ground and Flight Test Plans
- Certification Plan



Aircraft Manual Supplements

- Aircraft Maintenance Manual (AMM)
- Airplane Flight Manual (AFM)
- Wire Diagram Manual (WDM)
- Electrical Load Analysis (ELA)
- Weight and Balance Manual (WBM)
- Instructions for Continued Airworthiness (ICA)
- Illustrated Parts Catalog (IPC)
- Component Maintenance Manual (CMM)

FAA and ODA Services

- Request for Conformity (RFC)
- Issue Papers
- Alternate Methods of Compliance
- Type Inspection Authorization (TIA)
- Foreign CAA Bilateral Validation Requests
- Supplemental Type Certificate (STC)

LRU Level Support

- Failure Modes and Effects Analysis (FMEA)
- Safety Analysis
- Structural Analysis and Test Procedures & Reports
- Qualification Test Procedures & Reports
- Flammability Analysis and Test Procedures & Reports



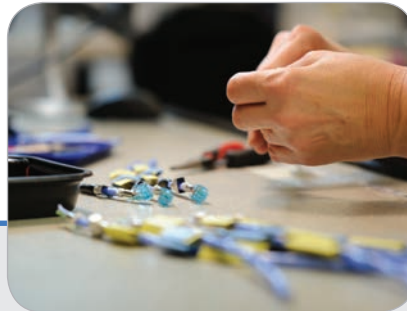
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MANUFACTURING & KITTING

CertifyNation provides many manufacturing services including: in-house wire and cable harness fabrication, electrical assemblies and first article inspections (FAI). As an FAA Production Approval Holder (PAH) we provide FAA PMA'd kitting solutions.

Our manufacturing team has extensive integration and modification experience covering military, business jets and commercial aircraft.



General

- Procurement
- Inventory Management
- Logistics
- First Article Inspections (FAI)

Manufacturing

- Sheet Metal
- Wire Harnesses
- Printed Circuit Boards
- Mechanical Assemblies
- Electrical Assemblies

Kitting

- Hardware
- Installation Kits
- FAA PMA'd Kits



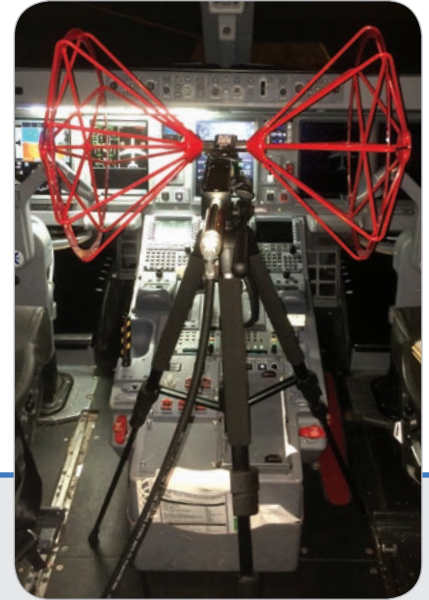
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TESTING & ANALYSIS

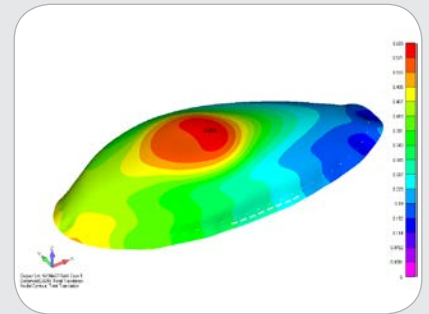
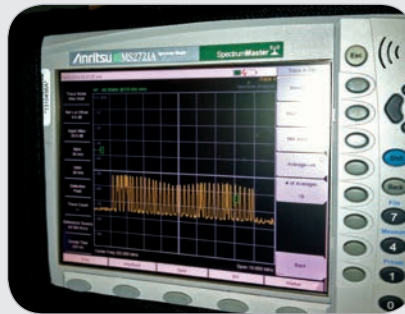
CertifyNation has extensive experience in the testing and analysis of performance, electromagnetic interference (EMI) and transmitting portable electronic devices (TPED).

Our method for TPED testing is unparalleled in the industry allowing us to test an entire aircraft on a single overnight. We also have a growing database of tested and approved parts that will reduce potential certification delays.



Performance, EMI and TPED Testing

- Large Antenna and Radome Performance Testing
- Electromagnetic Interference (EMI) Non-interference Testing
- DO-294C and DO-307 Testing



Analysis

- Metallic and Composite Finite Element Analysis (FEA)
- Fatigue and Damage Tolerance Analysis (DTA)



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