

DON ROBERTS

ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 35 years of project development and leadership experience applying proven engineering and certification processes to achieve airworthiness certification. Specialized technical expertise in both military and civil certification, with a demonstrated record of successfully leading airworthiness and design engineers through the airworthiness certification process. Systems engineering expert with additional experience in mechanical design, manufacturing engineering and management, and quality assurance. Former Federal Aviation Administration (FAA) Designated Airworthiness Representative (DAR), two term Lockheed Martin Engineering Technical Fellow for airworthiness and airworthiness certification, and co-founder of the Association of Airworthiness Professionals (AAP).

PRINCIPAL AREAS OF EXPERTISE

Military and Civil Airworthiness Certification

Served two terms as Lockheed Martin (LM) Engineering Technical Fellow for Airworthiness and Airworthiness Certification providing technical expertise to LM US and international programs. Authored and published aeronautics airworthiness procedures in addition to evaluating program compliance from early proposal to final certification. Served as the LM corporate representative on the Airworthiness Defense Industry Advisory Group (ADIAG) to the US Air Force (USAF) Technical Airworthiness Authority (TAA). Served 17 years as an FAA DAR supporting multiple civil programs.

Project Planning, Organization and Execution

Conceived and led successful development and implementation of the LM airworthiness process improvement initiative within focusing on processes, procedures, practices, and people. Led development and implementation of the LM Airworthiness Tool designed to manage airworthiness for all LM military and civil programs. Led successful implementation of the Dassault 3D Experience (3DX) for airworthiness use on a developmental program.

Education and Mentoring

Developed and taught LM airworthiness training courses educating the LM workforce in military and civil airworthiness certification. Presented at multiple national and international conferences including twice at the International Airworthiness Certification Conferences in Seoul, South Korea. Mentored multiple airworthiness and systems engineering professionals developing the next generation of technical fellows. Served six years on the Baylor University School of Engineering and Computer Science Board of Advocates providing guidance, support, and industry perspective. Initiated LM recruiting of Baylor Engineering and Computer Science interns and graduates. Developed and managed cooperative program for senior design projects between LM and the Baylor School of Engineering. Conceived and co-founded the Association of Airworthiness Professionals (AAP).



DAYTON AEROSPACE

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EDUCATION

MS, Systems Engineering
Southern Methodist University

BS, Mechanical Engineering
Texas Tech University

KEY POSITIONS

Engineering Technical Fellow
Lockheed Martin Aeronautics

**Quality Assurance
Engineer/Supervisor**
The Boeing Company, Commercial
Electronics Division

Manufacturing Engineer/Supervisor
The Boeing Company, Commercial
Electronics Division

Senior Design Engineer
Haliburton Services

WORK HISTORY

Associate | Dayton Aerospace, Inc.

2021-present, Dayton, OH

Provide industry expertise from program inception to retirement for airworthiness strategy, planning, certification basis development, regulatory authority interface, and compliance documentation, including integrating airworthiness in systems engineering and quality assurance processes. Provide industry airworthiness process support across all phases of the certification including development of airworthiness certification plans and airworthiness management tools for managing and tracking progress. Develop and deliver airworthiness training.

Engineering Technical Fellow | Lockheed Martin Aeronautics

2002-2020, Fort Worth, TX

Provided technical certification expertise and consultation to all LM programs and developed/championed LM Aero airworthiness improvement initiatives. Led development and implementation of LM airworthiness processes and procedures and created an Airworthiness Management Tool implemented by all LM programs. Reviewed and assessed LM programs for compliance with company airworthiness processes and procedures. Participated in multiple proposals as independent evaluator of airworthiness planning and execution. Led civil and military airworthiness certification programs, including implementation of the Dassault 3DEXperience for airworthiness on a developmental program. Developed and taught airworthiness courses to LM business units, partners, and customers. Held independent FAA Designated Airworthiness Representative (DAR) designation issuing Special Airworthiness Certificates for LM programs. Served as primary interface between LM Aero and the FAA for civil experimental aircraft certification at the Fort Worth site while providing technical FAA certification consultation to all LM civil programs.

Quality Assurance Engineer/Supervisor | The Boeing Company, Commercial Electronics Division

1993-2002, Irving, TX

Authored FAA-approved Quality Assurance Manual meeting FAA and ISO/AS9100 requirements. Led quality assurance improvement projects relating to commercial products utilizing Lean principles and concepts. Managed quality engineering, software quality, the Material Review Board, and archive and calibration organizations and budgets. Served as FAA designee and managed other FAA designees in performance of delegated FAA responsibilities. Served as principal liaison between Boeing-Irving and the FAA and served as FAA Designated Manufacturing Inspection Representative (DMIR).

Manufacturing Engineer/Supervisor | The Boeing Company, Commercial Electronics Division

1987-1993, Irving, TX

Developed, maintained, and led initiatives to improve manufacturing processes for 737, 747, 757 Flight Deck, 777 Flight Deck, Attendant Panel and Avionics Assemblies. Managed manufacturing engineering, production planning, support personnel and associated budgets supporting 737 and 757 avionics and electronics products.

Design Engineer/Senior Design Engineer | Haliburton Services

1982-1987, Duncan, OK

Designed, introduced into production, and fielded mechanical packaging systems for the petroleum industry. Awarded five US patents and two International patents.

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