JUAN SATTERFIELD

SENIOR ASSOCIATE, **DAYTON AEROSPACE, INC.**

PROFILE

40 years of experience in the US Air Force (USAF) engineering career field across the Department of Defense (DOD) acquisition life cycle. Significant experience and expertise providing technical leadership in design, development, production, and sustainment program execution in areas essential to weapon system acquisition for a broad range of manned and unmanned aircraft systems including MQ-9A, RQ-4A, C-17, and F-22. Expert with executing MIL-HDBK-516C airworthiness certification efforts and risk acceptance. Executed challenging technical investigation and risk management of development and sustainment issues for air vehicles, and aircraft subsystems. NH-04, Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Systems Engineering	Development Engineering	Air Vehicle Subsystems
Software Development	Propulsion Controls	Sustainment Engineering
Airworthiness Certification	Risk Management	Root Cause Investigations

WORK HISTORY

Senior Associate | Dayton Aerospace, Inc.
2024-present, *Dayton, OH*

Provide engineering and airworthiness subject matter expert (SME) support to government and industry. Systems engineering, flight systems, aircraft subsystems, propulsion controls, communication systems, and technical program management support including proposal preparation provided across all acquisition phases including development, production, and sustainment—to both industry and governments clients. Train various USAF and industry organizations in all aspects of military airworthiness certification. Experience evaluating artificial intelligence (AI) tools in the areas of airworthiness and aircraft sustainment.

MQ-9A Chief Engineer | Air Force Life Cycle Management Center (AFLCMC)
Intelligence, Surveillance, and Reconnaissance (ISR) Directorate, (AFLCMC/WI),
Medium Altitude Unmanned Aircraft System (UAS) Division (AFLCMC/WII)
2014-2024, *Wright-Patterson AFB (WPAFB), OH*

Responsible for technical execution efforts and establishment of a new systems engineering acquisition strategy for a $6B development, production, sustainment, systems integration, and airworthiness effort for fleet of USAF aircraft, ground control stations, and communications infrastructure. Executed worldwide 24/7 support operations for Air Combat Command (ACC) aircraft fleet.

Deputy Chief Engineer | RQ-4 Division (AFLCMC/WIG)
2012-2014, *WPAFB, OH*

Technical advisor in areas of avionics, flight systems, systems engineering, and configuration management. Oversight responsibility on all programmatic efforts providing on call 24/7 aircraft system depot-level technical assistance to deployed locations worldwide.

Chief Flight Systems Engineer | AFLCMC/WIG
2008-2012, *WPAFB, OH*

Led air vehicle engineering technical team in the development and airworthiness of RQ-4 upgrades including a Hanscom communication payload in response to an USAF urgent need. Provided 24/7 on call depot-level assistance in support to overseas contingency operations. Developed a synergistic USAF-Navy propulsion commonality acquisition strategy.

DAYTON AEROSPACE
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EDUCATION

MS, Electrical Engineering
University of Dayton

BS, Electrical Engineering
West Virginia Institute of Technology

CERTIFICATIONS & TRAINING

Acquisition Professional Development Program (APDP)
- Engineering, Level III
- Computers and Communication, Level I
- Program Management, Level I

USAF Airworthiness Certification
- AIR 116, Introduction to Airworthiness Certification
- AIR 216, Intermediate Airworthiness Certification
- Basic Training Course

WORK HISTORY (CONT'D)

Lead Propulsion Engineer | Aeronautical Systems Center (ASC), ISR Directorate, Global Hawk Division
2003-2008, *WPAFB, OH*

Direct responsibility for technical, cost, and performance of the engine program. Conducted airworthiness certification for the engine designed to support RQ-4 Block 10 fielding. Led tiger team investigation of engine in-flight shutdowns and implemented corrective actions to return fleet to operations. Developed fuel nozzle refurbishment and cleaning process in lieu of disposal resulting in $104M cost avoidance. Developed, tested, and fielded a commercial turbine upgrade to maintain design commonality.

Lead Propulsion Engineer | ASC, Propulsion Wing, C-17 Engine Division (ASC/YZ)
2001-2003, *WPAFB, OH*

Led integrated product team (IPT) responsible for the F117 engine sustainment program. Managed all commercial off-the-shelf (COTS) production engine deliveries and spares in support of engine fleet management. Handpicked as technical logistic center liaison to provide engineering support and program direction in the development of the Comprehensive Engine Health Trending and Diagnostics System (CETADS). Conducted and implemented the F117 operational safety, suitability, and effectiveness (OSS&E) execution plan. Provided recommendations to attain airworthiness approval based on the Federal Aviation Administration (FAA) certification.

Prior to 2000

- Lead Engine Controls Engineer & Manager, F-22 Engine, ASC/YFEP, *WPAFB, OH*
- Electrical IPT Lead, F-22, ASC/YFZD, *WPAFB, OH*
- Lead Engine Controls Project Engineer, Tactical Aircraft SPO, ASC/TAEF, *WPAFB, OH*
- Engine Controls Engineer, Engineering Division, Engineering Branch, *WPAFB, OH*