

JUAN SATTERFIELD

SENIOR ASSOCIATE, DAYTON AEROSPACE, INC.



DAYTON AEROSPACE

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PROFILE

Nearly 40 years of experience serving in various capacities in the US Air Force (USAF) engineering career field across the Department of Defense (DOD) acquisition life cycle. Significant experience 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, F-15 Short Takeoff/Landing, F-22, YF-22, and YF-23. Expertise and experience with executing MIL-HDBK-516C airworthiness certification and risk acceptance efforts. Executed challenging technical investigation and risk management of development and sustainment issues for air vehicles, aircraft subsystems, flight controls, power systems, engines, software, flight tests, and electromagnetic interference/electromagnetic compatibility (EMI/EMC). NH-04, Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Systems Engineering	Development Engineering	Air Vehicle Subsystems
Engineering Leadership	Propulsion Controls	Sustainment Engineering
Airworthiness Certification	Risk Management	Technical Management

WORK HISTORY

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

Provide system engineering, flight systems, aircraft subsystems, propulsion controls, and technical program management support across all program phases including development, production, and sustainment—to both industry and government clients. Specific expertise includes technical program execution, design review execution, test planning, and risk mitigation identification. Airworthiness subject matter expert providing support and training to multiple customers within and outside the government.

MQ-9A Chief Engineer | Intelligence, Surveillance, and Reconnaissance (ISR)
Directorate, Medium Altitude Unmanned Aircraft System (UAS) Division, AFLCMC/WII
2014-2024, *WPAFB, OH*

Responsible for technical execution efforts and establishment of a new system 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, in support of 24/7 operations for Air Combat Command (ACC), Air Force Special Operations (AFSOC), and Air National Guard (ANG).

RQ-4 Deputy Chief Engineer | Global Hawk, 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 | Global Hawk, AFLCMC/WIG
2008-2012, *WPAFB, OH*

Led air vehicle engineering technical team in the development and airworthiness of RQ-4 upgrades includes a Hanscom communication payload in response to an Air Force 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.

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

Military Airworthiness Certification

AIR 116, Introduction to
Airworthiness Certification

AIR 216, Intermediate
Airworthiness Certification

Basic Training Course

WORK HISTORY (CONT'D)

Lead Propulsion Engineer | ISR Directorate, Global Hawk SPO, Aeronautical System Center (ASC)/WIG 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 investigating engine shutdowns during flight and recommended corrective actions to return fleet to operations. Developed fuel nozzle refurbishment and cleaning process in lieu of disposal resulting in \$104M cost avoidance.

Lead Propulsion Engineer | Propulsion Wing, C-17 Engine SPO, 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 SPO, ASC/YFEP, WPAFB, OH
- Electrical IPT Lead, F-22 SPO, 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

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