BOB STANTON

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

PROFILE

Distinguished 35+ year career with unrivaled experience as a recognized leader in airworthiness, systems engineering, and program management throughout the life cycle for the nation's most complex and critical aviation platforms (F-35, B-1, C-17, and F-15) and weapons systems, including joint service and multinational (partner and customer) contexts. Demonstrated ability to develop, execute, and manage novel approaches to solve difficult problems, resulting in acquisition reform, organizational revitalization, strengthened systems engineering, risk mitigation, and integrated program performance improvements. GS-15, Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Military Airworthiness Certification

In the dawn of the newly established US Air Force (USAF) airworthiness policy, led the definition, establishment and execution of all F-35A airworthiness assessment and certification activities and processes for USAF and international customers. Integrated airworthiness into F-35 change management and configuration control board (CCB) activities. As the F-35A Delegated Technical Authority (DTA) for airworthiness, issued Military Flight Releases (MFR) (airworthiness certification) for less-than-major modifications to aircraft in the operational fleet, test modification for operational test (OT) aircraft and for each F-35A production aircraft in support of contractor and US Government acceptance flights. Routinely trained and advised USAF, Navy and international customer personnel on USAF airworthiness and F-35 implementation.

Technical Engineering Management

Managed and coordinated priorities for Joint Strike Fighter (JSF) independent product teams (IPTs) to execute all airworthiness activities from first contractor acceptance flights, through initial operational capability (IOC) and beyond. Led engineering efforts across seven, high-visibility munitions enterprise initiatives; and developed, documented, and implemented a common risk management process across the programs.

Systems Engineering

Led system engineering revitalization efforts at both Command and Center levels including development and deployment of tools, assessment, guidance and training. Led systems engineering and operational safety suitability and effectiveness (OSS&E) implementation for the B-1.

DAYTON AEROSPACE

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EDUCATION

MS, Systems Engineering
Wright State University

BS, Electrical Engineering
Rensselaer Polytechnic Institute

Advanced Program Managers Course
Defense Systems Management College (DSMC)

KEY POSITIONS

Chief Systems Integration Engineer
F-35 Joint Strike Fighter Program Office (JSFPO)

Chief Engineer & Deputy Squadron Director
685 Armament Systems Squadron

Chief, Engineering & Technical Management Division
Air Armament Center (AAC)

Senior Systems Engineer
Headquarters, Air Force Materiel Command (HQ AFMC)

Deputy Program Manager & Deputy Division Chief
Projects Division, B-1 System Program Office

CERTIFICATIONS

Acquisition Professional Development Program (APDP)

Systems Planning, Research, Development & Engineering (SPRDE) - Level III

Program Systems Engineering - Level III

Program Management - Level III

Test and Evaluation (T&E) - Level I

WORK HISTORY

Senior Associate | Dayton Aerospace, Inc.
2020-present, *Dayton, OH*

Support government and industry customers in multiple facets of airworthiness including strategy, planning, certification development, compliance documentation, and approval processes, as well as assist with the integration of airworthiness into systems engineering processes. Assist clients in the development of airworthiness-related documentation, such as determination forms/reportability determinations, certification basis, compliance reports, risk assessments, and flight authorizations for approval and develop/deliver airworthiness training. Provide systems engineering support across all program phases—development, production, and sustainment.

Chief, Systems Integration Engineer | F-35 Joint Strike Fighter Program Office (JSFPO)
2009-2019, *Arlington, VA*

During tenure with the $300B multinational F-35 Joint Strike Fighter (JSF) program, held key engineering leadership positions, including F-35A Delegated Technical Authority (DTA) for airworthiness at both the director of engineering and chief engineer levels of delegated authority. Led development for and secured USAF Technical Airworthiness Authority (TAA) approval of the F-35A certification basis and subsequent TAA issuance of Military Flight Releases (MFRs) against all major production lot design changes and software updates. As F-35A DTA, personally issued MFRs for less-than-major modifications to aircraft in the fleet and undergoing operational test (OT). Effectively coordinated across complex organizational construct to integrate Navy and USAF procedures, tools, and technical organizations and achieve common processes for F-35A users. Aligned international customer, and USAF airworthiness activities while preserving equities and satisfying requirements. Principal architect of unprecedented F-35A airworthiness strategy and process, allowing for incremental airworthiness certification of fielded F-35A aircraft while the program continued through development and test. As a recognized airworthiness expert, routinely engaged senior leadership across US military services, international partners, and foreign military sales (FMS) customers on airworthiness certification requirements, providing advice and successfully advocating for their support and commitment in execution of F-35 airworthiness certification activities throughout the life cycle. Successfully led F-35A airworthiness assessment activities for five partner nations and three FMS customers, resulting in the issuance of flight releases by respective aviation authorities and earning personal recognition from the Australian Chief of Air Force. As an unparalleled resident expert on USAF governance of F-35 airworthiness, personally provided training and advice to US military services, eight partner nations, and two FMS customers. Managed and coordinated priorities for JSF independent product teams to execute all airworthiness activities from first contractor acceptance flights through initial operational capability (IOC); ten low rate initial production (LRIP) lots (greater than 250 aircraft); and three major software upgrades.

Chief Engineer & Deputy Squadron Director | 685 Armament Systems Squadron
2006-2009, *Eglin AFB, FL*

Led an engineering team comprised of military, civilian, and contractor personnel. Managed four diverse flights; implemented systems engineering practices for seven high-visibility enterprise initiatives; and developed, documented, and implemented a common risk management process across all programs, including the BLU-121 warhead, Insensitive Munitions, Network Enabled Weapons, Joint Surface Warfare Joint Capability Technology Demonstration (JCTD), Universal Armament Interface (UAI), Precision Guided Munitions Planning Software, and Medium Caliber Ammunition. Results included Office of the Secretary of Defense (OSD) approval for foreign comparative testing of 25-mm round for the F-35A Lightning II; JCTD oversight executive approval for the BLU-121 transition plan for further weapon characterization; and integration with a Joint Direct Attack Munition tail kit.

Chief, Engineering and Technical Management Division | Air Armament Center (AAC)
2004-2006, *Eglin AFB, FL*

Revitalized the engineering home office and center workforce. Conceptualized and executed process to strengthen systems engineering discipline in AAC operations and developed systems engineering implementation tools, assessment, guidance, and training.

Senior Systems Engineer | Headquarters, Air Force Materiel Command (HQ AFMC)
2002-2004, *WPAFB, OH*

Led initial systems engineering revitalization efforts including definition of roles and responsibilities for USAF Center for Systems Engineering (CSE). During six months detailed as the Branch Chief, re-engineered the System Engineering Policy Branch's corporate vision, workload, skills, and staffing.

Deputy Program Manager & Deputy Division Chief | Projects Division, B-1 System Program Office
2001-2002, *WPAFB, OH*

Directed and managed all less-than-Acquisition Category I (ACAT-I) programs and projects not associated with existing block upgrades to meet coalition mission needs statements in support of Operation Enduring Freedom. Effectively communicated across warfighter and sustainment communities to achieve enhanced capability effectiveness and resolve suitability issues. Developed a cooperative approach to phased implementation for situational awareness improvements and assured safety-of-aircraft design modification to support Operational Utility Evaluation of laptops in the B-1 Lancer.

Lead Systems Engineer | B-1 System Program Office
1998-2002, WPAFB, OH

Developed and directed risk management and systems engineering activities for the $1.6B B-1 Lancer Conventional Mission Upgrade Program (multiple blocks). Established required baseline and developed Tailored Airworthiness Certificate Criteria (TACC) for the B-1B fleet; and authored, gained approval for, and led implementation of the operational safety suitability and effectiveness (OSS&E) policy.

Prior to 1998

- Systems Engineering Staff Specialist, OSD, *Washington, DC*
- Lead Integration Engineer, Acquisition Policy Directorate, Aeronautical Systems Center (ASC), *WPAFB, OH*
- Plans and Programs Engineer, Technical Operations Division, ASC, *WPAFB, OH*
- Lead Engineer, C-17 SPO, ASC, *WPAFB, OH*
- Lead Engineer, F-15 SPO, ASC, *WPAFB, OH*
- Project Engineer, Equipment Engineering Division, ASC, *WPAFB, OH*