

# JEFF FATH

SENIOR ASSOCIATE, DAYTON AEROSPACE, INC.

## PROFILE

Nationally recognized authority on advanced aircraft survivability technologies with over 35 years of experience serving in various capacities across the Department of Defense (DoD). Specialized expertise in low observables (LO), including signature reduction technologies, signature diagnostic and specification compliance measurements, LO materials, and LO system integrity and supportability. Expert on the management of special access programs (SAP) and strategic planning of sensitive major defense acquisition programs. NH-IV (GS-15), Department of the Air Force (DAF) (retired).

## PRINCIPAL AREAS OF EXPERTISE

### Technology Transition

Planned and executed transition of advanced technologies from multiple organizational perspectives, including DoD research laboratories, system program offices, and the Pentagon for technologies protected by special access programs. Evaluated technologies developed under independent research and development (IRAD) for potential application to DoD programs. Assessed technology readiness of both government and industry funded technologies and identified actionable steps for maturation to appropriate technology readiness levels for transition.

### Systems Development and Integration

Led LO system development and integration across multiple Air Force programs with vast experience in systems engineering, analytical methods, evaluation, and transition of advanced technologies into USAF weapon systems—including all technical aspects of signature control technologies for the design, development, testing, fielding and sustainment of LO air vehicles. Spearheaded the development of diagnostic imaging for the F-117—changed how USAF maintains LO aircraft to ensure combat readiness.

### Developmental Planning

Provided technical leadership of early systems engineering and trade space analyses for the developmental planning of potential next-generation aerospace systems, including Next Generation Air Dominance (NGAD), Airborne Electronic Attack (AEA), advanced air refueling, and intelligence, surveillance and reconnaissance (ISR) capabilities. Directed the rapid growth of the NGAD developmental planning engineering team, established the foundational security architecture for NGAD's agile development initiatives, and orchestrated technology transfers with Air Staff.

### Technical Independent Review Teams

Served on numerous executive independent review teams (EIRTs) as an LO subject matter expert supporting classified programs and the Joint Strike Fighter (JSF) after Nunn-McCurdy breach. Co-chaired EIRT on the test capabilities required to support air vehicle programs with advanced LO technologies. Provided subject matter expertise in LO and aircraft survivability to both government and industry customers.

### Technical Program Management

Managed advanced technology development programs for DoD aerospace survivability, including B-2, B-21, E-3, F-117, F-22, F-35, NGAD, and other classified programs. Led technical program planning to ensure proper scope, quality and timeliness of the organization's investment strategy. Established joint technology development programs with other Services and US Government agencies to ensure fully integrated national-level efforts. Led the development of a mission capable rate (MCR) improvement program and innovative reliability, maintainability and availability analysis tool that identified top drivers—resulted in 15% MCR increase.



## DAYTON AEROSPACE

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## EDUCATION

**MSEE, Electrical Engineering**  
Air Force Institute of Technology

**BSEE, Electrical Engineering**  
Ohio University

**Defense Leadership and Management Program (DLAMP)**

**Executive Leadership in a Changing Environment**  
Brookings Institute

**Leadership Development Program**  
Center for Creative Leadership

**Advanced Program Management Course**  
Defense Acquisition University

**Advanced Systems Engineering Course**  
Defense Acquisition University

**Air War College**

## KEY POSITIONS

**Assistant to AFLCMC Commander for Special Access Programs**

Plans & Programs Directorate  
(AFLCMC/XP-OZ)

**Chief Engineer**

Aeronautical Systems  
Development Division, Program  
Development and Integration  
Directorate (AFLCMC/XZA)

**Deputy Program Manager**

Systems Technology Office, Air  
Force Research Laboratory  
(AFRL/STO)

**Technical Advisor, Low Observables**

Engineering Directorate  
(AFLCMC/EN-EZ)

**Deputy Division Chief**

Advanced Aircraft Survivability  
Division, Special Programs  
Directorate (SAF/AQL)

## CERTIFICATIONS

**DAWIA Level III Certification**

Systems Planning, Research,  
Development and Engineering  
Systems Engineer  
Science & Technology Manager

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## WORK HISTORY

### **Senior Associate | Dayton Aerospace, Inc.**

**2019-present, Dayton, OH**

Provide systems engineering and technical management support across all program phases including development, production, deployment, operations and sustainment to both industry and government clients. Specific areas of expertise include program and technical planning, innovation, technology transition, and risk assessment. Low observables subject matter expert providing technical support, mentorship, and training to multiple customers in support of program planning, technical development, independent technical reviews, program support reviews, and weapon system supportability. Specialties include aircraft survivability, low observables, and analytical methods, across all phases of the acquisition life cycle.

### **Division Chief and Assistant to the Air Force Life Cycle Management Center (AFLCMC) Commander for Special Access Programs | Special Programs Division, Plans and Programs Directorate (AFLCMC/OZZ)**

**2018-2019, Wright-Patterson AFB, OH**

Created the new Special Programs Division to provide the AFLCMC Commander a responsive and trusted support unit to provide management, administration, oversight and integration of AFLCMC SAP activities across the entire Center including 10 Program Executive Officers (PEOs), 16 Directorates, and numerous government and industry locations with over 28,000 personnel working SAP activities vital for rapid execution of AFLCMC's national security responsibilities. Established the new strategic direction and piloted the mission expansion by maturing and growing the office to 26 personnel, including a new information technology (IT) initiative to provide secure data and voice capabilities across the SAP community to include supporting SAP IT in acquiring ATOs, establishing new non-platform systems, and resolving policy for AF SAPCO.

### **Chief Engineer | Aeronautical Systems Development Division, Program Development and Integration Directorate (AFLCMC/XZA)**

**2016-2017, Wright-Patterson AFB, OH**

Served as the chief engineer for aeronautical systems development and supervisor over three subordinate engineering branches. Responsible for technical leadership of early systems engineering and trade space analyses for potential next-generation aerospace systems, including the engineering analysis and data to establish technical baselines for potential future programs of record. Provided mentoring and leadership on the systems engineering processes, analytic methods execution, and advanced conceptual design methods development. Directed the rapid growth of the Next Generation Air Dominance (NGAD) engineering development team and established the foundational security architecture for NGAD's agile development initiatives. Established partnership with AFRL to identify and mature technologies for transition to developmental planning programs.

### **Deputy Program Manager | Systems Technology Office, Air Force Research Laboratory (AFRL/STO)**

**2012-2016, Wright-Patterson AFB, OH**

Served as a nationally recognized authority on weapon system survivability technologies in support of advanced technology development programs. Pioneered new concepts and approaches for solving technical problems necessary to satisfy DoD aerospace survivability and associated supportability requirements. Defined requirements for new initiatives and planned technical program execution by the technical staff. Provided expert assessments and advice to ensure proper scope, quality and timeliness of the organization's technical investment strategy. Coordinated across AFRL, weapon systems program offices, major commands and the Air Staff to guide complex technologies' maturation and transition for integration into USAF weapon systems programs of record. Established and coordinated joint technology development programs with other Services and US Government agencies to ensure fully integrated national-level efforts.

### **Technical Advisor for Low Observables | AFLCMC Engineering Directorate (AFLCMC/EZA)**

**2009-2012, Wright-Patterson AFB, OH**

Served as the engineering authority and technical advisor for LO to all AFLCMC weapon systems and provided authoritative LO engineering expertise on all technical aspects of signature control technology for LO weapon system design, development, integration, testing and sustainment. Accomplishments include: established the LO Center of Excellence (LO CoE) to synergize LO expertise across Air Force Materiel Command (AFMC); formed the LO Supportability Office to provide a vital engineering focus on LO reliability and maintainability for AFLCMC managed programs; chaired quarterly LO CoE technical meetings to collaborate on problems impacting multiple programs; published MIL-HDBK-513A that overhauled the Air Vehicle LO Integrity Program for a cradle-to-grave guide for LO platforms; provided engineering guidance for improving LO design and sustainment, and for aircraft

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modernization to address emerging threats; evaluated AFRL's LO technology development portfolio and industry's independent research and development programs; served on numerous executive independent review teams for classified programs and the JSF's Nunn-McCurdy breach; and provided authoritative consultation to OSD, Air Staff, major commands, program executive officers, other Services and US Government agencies.

**Deputy Division Chief | Advanced Aircraft Survivability Division, Special Programs Directorate,  
Assistant Secretary of the Air Force (Acquisition) (SAF/AQLZ)  
2007-2009, Pentagon, VA**

Served as a USAF national-level authority on US aircraft survivability technologies and responsible for development, acquisition and integration of advanced technologies and systems to meet warfighter requirements. Assisted the Director of Special Programs in planning and executing USAF acquisition special access programs and strategic planning efforts. Led team of program element monitors (PEMs) managing advanced survivability and countermeasures programs by developing program direction, monitoring program execution and conducting special reviews for sensitive major defense acquisition programs (MDAPs). Led electronic attack pre-acquisition technology development planning and coordination with senior officials from OSD, USAF and the US Navy. Co-chaired executive independent review team of LO measurement experts from USAF, US Navy (USN), industry and academia to produce recommendations to upgrade current and to establish new test facilities to support development, production and sustainment of future air vehicle programs with advanced LO technologies.

**Branch Head | Signature Technology Office, Tactical Electronic Warfare Division, Naval Research  
Laboratory (NRL) (Code 5700)  
2006-2007, Washington, DC**

Competitively selected by the NRL Director to head the Signature Technology Office—NRL's focal point for LO research and development (R&D). Responsible for leadership and management of advanced LO technology R&D programs for USN, US Marine Corps and Naval Special Operations Forces. As a principal advisor to the Navy on LO technologies, guided the development of Navy R&D investment plans, established relationships across services and DoD agencies, and led interdisciplinary teams of senior scientists and engineers from NRL and multiple Naval Warfare Centers for innovative LO R&D.

**Prior to 2006**

- Principal Research Engineer, Signature Technology Office, Naval Research Laboratory, *Washington DC*
- Lead Analyst, 2005 BRAC Technical Joint Cross Service Group, Director of Defense Research & Engineering, *Pentagon VA*
- Director of Analysis, Warrior Preparation Center, Operations Directorate, US Air Forces in Europe, *Ramstein AB Germany*
- Chief Engineer, E-3 AWACS System Support Division, Oklahoma City Air Logistics Center (OC-ALC), *Tinker AFB OK*
- Lead Low Observables (LO) Engineer, B-2 System Program Office (SPO), Aircraft Directorate, OC-ALC, *Tinker AFB OK*
- LO Engineer, F-117 SPO, Specialized Management Directorate, Sacramento Air Logistics Center, *McClellan AFB CA*
- LO Engineer, Target Recognition Technology Branch, Avionics Directorate, Wright Laboratory (now AFRL), *WPAFB OH*

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