

DAVID EDMUNDS

ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 40 years of experience planning and executing all aspects of major US Air Force (USAF) propulsion systems engineering and acquisition programs. Successfully led the F-22/F119 engine engineering, manufacturing and development (EMD) program from initiation through qualification. Extensive hands-on experience with the acquisition, systems engineering, and technical management of large USAF programs. Technical expertise in propulsion system analysis/integration and low observables (LO). Direct involvement with the most current USAF developmental planning and acquisition management changes. Reputation for critical thinking and innovative problem-solving skills. GM-15, Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Propulsion Systems Analysis and Development

Extensive technical knowledge of propulsion system analysis and aircraft design integration considerations including LO. Successfully planned and executed engine development programs for the F100 and F119 engine families. Direct experience and involvement with all product acquisition phases: concept, technology, engineering, production, and support development.

Technical Management and Systems Engineering

Planned and successfully executed all life cycle phases of the F-22/F119 engine system. Practical experience implementing the most current systems engineering processes and guidance. Unique program office experience integrating latest acquisition reforms with technical management.

Proposal and Technical Independent Review Teams

Led and participated in numerous major source selection evaluations, program re-plans, cost assessments, design reviews and Executive Independent Review Teams (EIRTs) throughout career. Recognized for critical thinking skills and innovative problem solving.

Business Development and Strategic Planning

Extensive government and industry experience identifying and developing new market and product strategies. Current, in-depth knowledge of USAF capabilities-based assessment and development planning processes. Implemented technology transition plan for the F-22/F119 program.

Integrated Product and Process Development

Hands-on experience creating and leading major USAF program government and contractor integrated product teams (IPTs). Developed and implemented the F-22/F119 Engine Integrated Master Plan (IMP)/Integrated Master Schedule (IMS) management process and the Propulsion System Integrity Plan and Specification used for the technical management. Implemented an Executive Independent Review process for the F119 EMD program to help resolve technical issues and provide senior executive-level visibility and confidence



DAYTON AEROSPACE

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EDUCATION

MS, Electrical Engineering

Air Force Institute of Technology
(AFIT)

BS, Engineering Sciences

United States Air Force Academy
(USAF)

KEY POSITIONS

Technical Advisor, Avionics Systems Architecture

Aeronautical Systems Center
(ASC) (now part of AFLCMC)

Chief Avionics Systems Architect

USAF

Technical Director, Avionics

ASC Engineering Directorate
(now AFLCMC/EN-EZ)

Technical Advisor, Defensive Avionics Systems Engineering,

ASC/EN (now AFLCMC/EN-EZ)

ORGANIZATIONAL MEMBERSHIPS

Air Force Association (AFA)

National Defense Industrial
Association (NDIA)

Association of Old Crows (AOC)

WORK HISTORY

Senior Associate & Associate | Dayton Aerospace, Inc.

2002-present, Dayton, Ohio

Consultant to the Office of the Secretary of Defense (OSD), Air National Guard (ANG), and USAF on avionics acquisition programs such as ALR-69A, B-1, B-2, C-5, C-130, F-15, F-22, and Global Hawk. Also, provide support on various acquisition reform topics including streamlining logistics, systems engineering, and open systems. Frequent consultant to industry and allied countries in areas such as acquisition reform, modular open systems approaches, obsolescence mitigation strategies, technical risk management, radio frequency (RF) threat environment definition and assessment, and system architectures to counter modern threats. In 2012, transitioned from full-time Senior Associate to Associate (subcontractor) status.

Technical Advisor, Systems Architecture | ASC/EN (now AFLCMC/EN-EZ)

1996-2001, Wright-Patterson AFB, OH

As chief avionics architect for the USAF, led the development of the Viable Combat Avionics Initiative. Developed and deployed strategy for managing effects of avionics requirements growth, technology obsolescence, and vanishing suppliers over the life of weapon systems. Led the refinement of best value proposal evaluation methodology to capture the long-range impacts of proposed avionics products and processes on life cycle cost. Performed independent study for the Office of the Undersecretary of Defense – Acquisition, Technology and Logistics (OUSD(AT&L)) on potential effects of various F-35 (JSF) avionics acquisition strategies on airborne/space radar industrial base. Study resulted in acceptance of the proposed acquisition strategy. Represented USAF on DOD study of radar industrial base strategies. Supported State Department as the senior technical advisor on a highly sensitive investigation of potential compromise of classified information.

Technical Director, Avionics Engineering | ASC/EN

1992-1996, Wright-Patterson AFB, OH

Led many independent reviews of avionics and air-to-air weapons systems for program offices, program executive officers (PEOs)/designated acquisition commanders (DACs), and higher headquarters. Led tri-service study for OUSD(AT&L) that developed technical rationale that became the basis for the US policy on release of electronic attack systems to foreign countries. Developed methodology for estimating flight test duration based on test content, resource availability, and processes. This methodology was used to refine scope of F-22 proposed test program.

Technical Director, Defensive Avionics Systems Engineering | ASC/EN

1977-1991, Wright-Patterson AFB, OH

Directed multiple independent defensive avionics system reviews for program offices and higher headquarters. Developed strategy and led team that exploited highly classified intelligence information for application to acquisition programs and operational forces use. Led the successful development of organic low observables engineering capability within ASC/EN and the development of organic electronic warfare effectiveness and weapon system survivability analysis capability. Provided technical leadership that resulted in the successful development of highly regarded B-52 electronic warfare systems. Personally, performed cost effectiveness studies of multiple B-52 programs when resources could not support continued development of all programs. Served as technical advisor for coherent angle countermeasure techniques for Have Exit program. Led the development of countermeasure techniques that are effective against even today's modern threats.

Prior to 1977

- Instructor, USAF Electronic Warfare Officer School, *Mather AFB, CA*
- Electronic Warfare Officer, EB-66, *Korat Royal Thai AFB, Thailand*
- Electronic Warfare Officer, B-52, *Mather AFB, CA*

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