

# DARREL WICHMAN

ASSOCIATE, DAYTON AEROSPACE, INC.



## DAYTON AEROSPACE

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## PROFILE

Multi-disciplined, industry engineer familiar with electrical, optical, mechanical, software, instrumentation, and integration with over 35 years of experience in system engineering, design, integration, validation, and customer support. Contributor to Society of Automotive Engineers (SAE) and industry standards documentation. Instrumental in establishing the Universal Armament Interface (UAI), a multi-corporation effort to establish a standard for weapons integration across multiple air, land, and sea platforms. Former program manager responsible for the Joint Direct Attack Munition (JDAM) integration on the F/A-18C/D and F/A-18 E/F platforms and team leader responsible for laser communication system production for the Defense Support Program. Familiar with F-4, F-15, F/A-18, and F-22 weapon systems.

## PRINCIPAL AREAS OF EXPERTISE

Mission Systems	Systems Integration
Systems Engineering	Weapons Integration
International Programs	Software Development and Integration
Systems Development and Integration	International Traffic in Arms Regulation (ITAR)

## WORK HISTORY

**Associate | Dayton Aerospace, Inc.**

**2023-present, Dayton, OH**

Support the UAI platform store integrated product team (IPT) developing an interface that reduces integration schedule and cost. Provide subject matter expert (SME) support to government and industry customers in the areas of weapon interface development and assessment and weapon systems engineering.

**Engineer, Universal Armament Interface | The Boeing Company**

**2019-2023, St. Louis, MO**

Platform store IPT lead for the development and maintenance of the platform store interface control document (ICD) and the platform store certification compliance plan for the multi-corporation team supported the US Government in the development of the UAI. Effort required considerable coordination of efforts with multiple US and international organizations.

**Engineer, F/A-18 | The Boeing Company**

**2009-2019, St. Louis, MO**

Chief systems engineer supporting F/A-18 sensors and special programs, and UAI. Technical lead for 20+ engineers with experience ranging from 0 - 25 years. Developed SAE Standards and supported international marketing efforts of the F/A-18 platform. Supported US Department of Defense (DOD) ITAR export policy discussions. Frequently collaborated with F-15 and F-22.

**Engineer, Tactical Aircraft | The Boeing Company**

**2004-2009, St. Louis, MO**

Lead engineer for the hardware and software integration of advanced avionics into the F/A-18E/F and F-15 aircraft. Weapon system lead for the development of the EA-18G aircraft. Led weapon system integration activities for successful design reviews of a new aircraft design and related weapon system capabilities. Coordinated advanced system capabilities between the F-15 Strike Eagle and the F/A-18C/D Hornet and F/A-18 E/F Super Hornet.

## EDUCATION

**MS, Mechanical Engineering**

University of Illinois

**BS, Mechanical Engineering**

University of Illinois

**Associate of Science**

Highland Community College

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## WORK HISTORY (CONT'D)

### Engineer, F/A-18 | The Boeing Company

1999-2004, *St. Louis, MO*

Manager for the F/A-18 Air-to-Air Systems Integration Requirements and Test Team. Directed the daily efforts of 23 engineers, while maintaining an off-site support staff for development testing of the F/A-18E/F aircraft. Coordinated staffing requirements and budgets for 8-10 simultaneous activities. Coordinated and conducted international technology training for export of critical technologies to Australia under US laws and limitations.

### Prior to 2003

- Engineer/Scientist 4, F/A-18, The Boeing Company, *St. Louis, MO*
- Lead Engineer, F/A-18, McDonnell Douglas Corporation, *St. Louis, MO*
- Senior Engineer, McDonnell Douglas Astronautics Company, *St. Louis, MO*
- Engineer, McDonnell Douglas Astronautics Company, *St. Louis, MO*
- Principal, PDB&G, Inc., *St. Louis, MO*
- Research/Teaching Assistant, University of Illinois, *Urbana, IL*
- Engineer, Missile Systems, McDonnell Douglas Corporation, *St. Louis, MO*
- Project/Manufacturing Engineer, Honeywell - Micro Switch Division, *Freeport, IL*

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