

DAVID NEEL

ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 35 years of experience leading multi-disciplined, multi-national, and multi-corporation engineering teams, including roles as the chief engineer of the Universal Armament Interface (UAI) Industry Team, participant and chairman on various NATO Industrial Advisory Group studies and Chairman of Society of Automotive Engineers (SAE) committees, and leadership of numerous national weapons integration programs. Former Lockheed Martin Weapons Integration Fellow and weapons integration course instructor. Extensive hands-on weapons integration and related study experience on various aircraft including F-111, F-16, A-12, F-35, C-130, F-117 and F-22. Proven program manager and project engineer for multiple successful weapon integrations on the F-16, including JASSM, MALD, SDB 1, BRU-61, Have Lite, HGK, JSM and AASM, and on the F-35, including B61-12, SDB 2, JMMBRU, JSM, SOM-J and JSOW. Certified Level 2 Program Manager. Supported development of the System 2 Interface and led the F-35 nuclear certification effort, which included writing the F-35 Nuclear Certification Plan and schedule, writing the F-35 Nuclear Safety Evaluation Plan and Nuclear Safety Analysis Report, participating in F-35 Nuclear Project Officer and Nuclear Certification planning meetings, and supporting the nuclear community during System 2 implementation.

PRINCIPAL AREAS OF EXPERTISE

Nuclear Certification of Aircraft

Developed the F-35 Nuclear Certification program plan, generated nuclear certification documentation, tailored AFMAN requirements to support F-35 System 2 implementation, and led the F-35 program for integration of the B61-12.

Program Management

Certified level 2 program manager; managed numerous weapon integration programs on F-16 and F-35 and served as the Lockheed Martin program manager for UAI Industry Team contracts. Led three international UAI weapon Integrations onto the F-16 and the SDB 2 integration onto the F-35.

Weapons Integration

Former Lockheed Martin Fellow for Weapons Integration and the company's Weapons Integration Training Course instructor. Extensive hands-on experience with integration of advanced air-to-air and air-to-ground weapons onto fighter aircraft. Contributing author of MIL-STD-1760, *Aircraft/Store Electrical Interconnection System*, and chief engineer for the development of the Universal Armament Interface. Participated in and led multiple NATO Industrial Advisory Group studies for integration of weapons across NATO aircraft and development of NATO standards.



DAYTON AEROSPACE

4141 Colonel Glenn Hwy.
Suite 252
Dayton, Ohio 45431

P: (937) 426.4300

E: david.neel@daytonaero.com

EDUCATION

BS, Electrical Engineering
Bradley University

USAF Nuclear Certification Training
Program Management Curriculum
Lockheed Martin

KEY POSITIONS

F-35 Weapons and Nuclear
Certification Project Manager
Lockheed Martin Aeronautics

Chief Engineer, UAI Industry Team
Lockheed Martin Aeronautics

Advanced Development Programs
Program Manager and Project
Engineer, F-35 B61-12 Integration
and numerous F-16 integrations
Lockheed Martin Aeronautics

Program Manager, UAI Industry
Team
Lockheed Martin Aeronautics

Fellow, Weapons Integration
Lockheed Martin Aeronautics

CERTIFICATIONS

Level 2 Program Manager
Nuclear Certification

PROFESSIONAL MEMBERSHIPS

Society of Automotive Engineers
Vice-Chairman and Chairman,
Avionics Systems and Systems
Integration Committee (2002-14)

Defense Standardization Program
Outstanding Performance Awards
NATO Industrial Advisory Group
US Country Coordinator for four
NIAG Weapon Integration Studies
Chairman, SG142 NATO Universal
Armament Interface

WORK HISTORY

Associate | Dayton Aerospace, Inc.

2017-present, Dayton, OH

Provides technical and program management support for integration of advanced weapons onto aircraft, support planning and execution of aircraft nuclear certifications, and trains clients on weapon integration.

F-35 Weapons and Nuclear Certification Project Manager | Lockheed Martin Aeronautics (LM Aero)

2015-2017, Ft. Worth, TX

Managed integration and contracts for B61-12, JMMBRU, SDB2, Norwegian JSM, Turkish SOM-J, and JSOW, as well as nuclear certification on the F-35 program.

Chief Engineer, Universal Armament Interface (UAI) Industry Team | LM Aero

2004-2017, Ft. Worth TX

Chief engineer for the multi-corporation team responsible for the development of the most successful open architecture program in the US Air Force. Provided technical leadership to the UAI Industry Team composed of Boeing, Lockheed Martin, Northrop Grumman, and Raytheon engineers. Participated in multiple International Weapons Integration Conferences to present the UAI approach and supported NATO efforts to standardize UAI as the preferred NATO weapon integration interface.

Advanced Development Programs Program Manager and Project Engineer | LM Aero

1996-2015, Ft. Worth, TX

Led the Risk Reduction Studies for the F-35 B61-12 integration and F-35 nuclear certification planning. Lockheed Martin program manager for the for development of the Universal Armament Interface (UAI). Program manager and project engineer for the successful integration of the Turkish HGK, French AASM and Norwegian JSM using UAI on the F-16.

Fellow for Weapons Integration | LM Aero

2006-2012, Ft. Worth, TX

Taught classes on weapons integration, participated in Red Team reviews and Strategic Technology Assessment Reviews (STAR), mentored young engineers, presented at and chaired International Weapons Integration Conferences, and chaired NATO Industrial Advisory Group weapons integration studies. Chaired the SAE Avionics Systems and Systems Integration Committee. Received several letters of accommodation from the Departments of the Air Force and Navy for efforts on various projects, and leadership and technical awards from SAE for his work on weapon interface standardization.

Program Manager and Project Engineer | LM Aero

1996-2015, Ft. Worth, TX

Led various successful integration efforts on the F-16 using UAI, including the Norwegian JSM, French AASM, and Turkish HGK. Managed the initial weapon integration studies for MALD and SDB 1 on the F-16 and led the F-16 Plug and Play Weapons Study. Successfully integrated the Israeli Have Lite and the JASSM on the F-16, which included 17 successful JASSM weapons drops. Performed studies and red team reviews for F-117, F-22, A-12 and C-130.

Prior to 1996

System Test and Weapons Integration Lead for TSSAM, AIM-120, JSOW, JDAM, and other weapons across multiple platforms (F-111, A-12 and F-16).

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