VERLE JOHNSON

SENIOR ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 40 years of experience in acquisition, systems engineering, testing, and program management with the United States (US) Air Force Materiel Command (AFMC). Focus areas include communication, navigation, and identification (CNI); radar; airborne defensive avionics systems; intelligence, surveillance and reconnaissance (ISR); high power directed energy (HPDE); high power microwave (HPM); computer systems; and software development and integration. Acquisition experience has been applied in advanced technology organizations such as Air Force Avionics Laboratory, 513th Engineering and Test Squadron, Electronic Combat Development System Office, Reconnaissance System Program Office, Aeronautical Systems Center Engineering Office, F-22 System Program Office, Special Projects, and B-21 System Program Office. NH-04. Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

- Airworthiness Certification
- Avionics Systems Development & Integration
- Integration/Test
- Software Development & Integration
- Mentoring
- Mission Systems
- Problem Solving
- Systems Engineering
- Weapons Integration
- Engineering & Technical Leadership

WORK HISTORY

Senior Associate | Dayton Aerospace, Inc.
2024-present, *Dayton, OH*

Provide senior-level expertise to government and industry customers in support of independent technical reviews, program support reviews (PSRs), technology readiness assessments (TRAs), and software estimation efforts for cost and schedule development. Specialties cross the full range of acquisition management activities, including configuration, engineering, program management and testing.

Lead Systems Engineer | B-21 Bomber (AFLCMC/WBS)
2017-2024, *Wright-Patterson AFB, OH*

Served as Lead Systems Integration Engineer for the B-21 Bomber program. Led all software development, hardware and software integration, and certification testing of the finished Integrated Functional Capabilities (IFCs) for use on the B-21. Led team through certification of IFC 1.0 for use on the first B-21 test aircraft—effort directly supported first flight for the B-21 Raider, moving the program into flight testing.

Lead Mission Systems Engineer | AFLCMC/WBS
2016-2017, *Wright-Patterson AFB, OH*

Provided engineering support as Lead Mission Systems Engineer at contract award for the $9B B-21 Bomber Engineering and Manufacturing Development (EMD) contract. Led technical team maturing core processing, radar, communication, armament, and ground systems, successfully accomplishing preliminary design review maturity.

Chief Avionics Engineer | F-22 Fighter (AFLCMC/WAU)
2011-2016, *Wright-Patterson AFB, OH*

Led modernization efforts to improve weapon system performance of the radar, other sensors, and numerous weapons. Responsible for all hardware and software development to meet lead Command requirements. Led fleet's engineering integration of the AIM-9X missile and Auto Ground Collision Avoidance Systems (AGCAS) and paved the groundwork for an upgraded communications suite. Architect responsible for resolution of flight test discrepancies and fielded operations.

DAYTON AEROSPACE
4141 Colonel Glenn Hwy.
Suite 252
Dayton, Ohio 45431
P: (937) 426.4300
L: verle-johnson-6b281a1ab/

EDUCATION

MS, Electrical Engineering
Air Force Institute of Technology (AFIT)

BS, Electrical Engineering
Wichita State University

Air War College
Air University

Air Command and Staff
Air University

CERTIFICATIONS & TRAINING

Professional Engineering (PE) License
Electrical Engineering

Acquisition Professional Development Program (APDP)

Systems Planning, Research, Development, and Engineering (SPRDE), Level III

Program Management, Level II

Test & Evaluation (T&E), Level II

WORK HISTORY (CONT'D)

Senior Avionics Engineer | Special Projects Division, AFLCMC/WB
2008-2011, *Wright-Patterson AFB, OH*

Provided expert-level technical support for a portfolio of advanced technology development efforts at various stages of maturity from design through test demonstrating vital enabling technologies to achieve successful deployment on future Air Force weapon systems.

Supervisory Engineer | F-22 Fighter (AFLCMC/WAU)
2005-2008, *Wright-Patterson AFB, OH*

Structured and led team responsible for verifying requirements to close out the EMD contract, initiating modernization efforts improving radar and weapons performance, completing certification of the identification friend or foe (IFF) system and adding airborne networking improvements. Managed correction of a problem with the navigation system discovered during an operational deployment to Japan.

Advanced Sensor Engineer | Engineering Home Office (AFLCMC/EZA)
2003-2005, *Wright-Patterson AFB, OH*

Provided avionics integration support for the advanced multi-discriminant sensor effort at the Air Force Research Laboratory (AFRL). Defined the verification plan for a foreign military sales (FMS) signals intelligence system. Supported the Joint Unmanned Combat Air System (J-UCAS) program integrating synthetic aperture radar and electronic support measures on the aircraft. Served as a subject matter expert for directed energy working with AFMC, AFRL, and Air Force Institute of Technology (AFIT) to establish a directed energy core competency within the center.

Prior to 2003

- Global Hawk Sensor Integration Engineer, ASC, *WPAFB, OH*
- Lead Systems Integration Engineer, Intelligence, Surveillance and Reconnaissance Program Office, ASC/RAJ, *WPAFB, OH*
- Chief, HPM Applications Branch, Air Force Research Laboratory Directed Energy Directorate, AFRL/DEH, *Kirtland AFB, NM*
- Program Manager/Lead Engineer U-2 Defensive System, ASC/RAPI, *WPAFB, OH*
- Electronic Combat Systems Engineer, Electronic Combat Development System Office, ASC/LN, *WPAFB, OH*
- Chief, B-1B Defensive Systems, 513th Test & Evaluation Squadron, *Offutt AFB, NE*