

JOHN GEISE

ASSOCIATE, DAYTON AEROSPACE, INC.



DAYTON AEROSPACE

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PROFILE

Over 45 years of experience as a leader in electronics engineering, including 34 years with the United States Air Force (USAF) at Wright-Patterson Air Force Base (WPAFB). Expertise includes the development and fielding of advanced aircraft self-protection systems, with assignments on many of today's operational bomber, fighter, and cargo aircraft, including B-52, F-15, F-16, F-35 and Special Operations C-130 and CV-22. Conducted technical studies and supported design reviews on these and many other aircraft including F-22, B-1, B-2, F-117, U-2. GS-15, Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Strategic Systems Technical Engineering Management	Systems Engineering Electronic Warfare System Development, Integration & Testing	System Integration & Testing Avionics and System Engineering
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WORK HISTORY

Associate | Dayton Aerospace, Inc.
2023-present, Dayton, OH

Senior consultant to the government and industry partners to provide technical and program management support for system testing and integration of electronic warfare, self-protection systems onto aircraft.

Senior Electronic Warfare (EW) Systems Engineer | Huntington Ingalls Industries
(formerly Alion Science and Technology)
2018-2022, Dayton, OH

Served as principal engineer and technical manager for the BriteCloud Active Expendable Decoy (AED) program in support of the Air National Guard (ANG) Foreign Comparative Test (FCT) program sponsored by Office of the Secretary of Defense Comparative Testing Office (OSD/CTO). Organized the program, defined overall program objectives and schedule, and planned test program. Organized initial test working group meeting, with test team. Defined overall program strategy and authored program management plan, test plan and memorandum of understanding (MOU) between key participating organizations. Wrote detailed test plans for ground test program and researched and documented operational security plan to ensure proper marking and handling of United Kingdom (UK) and contractor proprietary data.

Senior Electronic Warfare Systems Engineer | MacAulay-Brown, Inc.
2016-2018, Dayton, OH

Provided support to the Air Force Research Laboratory (AFRL) Electronic Attack (EA) Techniques for Agile and Adaptive Radar program. Identified current EA techniques and threat capabilities and assessed countermeasures against agile/adaptive radar systems. Assessed classical EA techniques and their potential effectiveness impacts against modern day threats. Identified several gaps in ongoing research areas based on the analysis of EA techniques, future threat developments and ongoing technology developments of the Adaptive Radar Countermeasures (ARC) program.

Senior EW Systems Engineer | MacAulay-Brown, Inc.
2008-2016, Dayton, OH

Managed a classified technology development and test program. In conjunction with US Government customers, developed advanced test concepts and approaches, developed prototype breadboards, and prepared test equipment to achieve customer objectives. Arranged test team deployment to test site, directed test activities on-site, and analyzed test results. Resultant technology of advanced capabilities under consideration by the customer.

EDUCATION

MS, System Engineering
Wright State University

BS, Electrical Engineering
University of Cincinnati

Air Vehicle Survivability Workshop
Massachusetts Institute of
Technology (MIT) Lincoln Labs

CERTIFICATIONS

**Certified Acquisition Professional –
Level III**

Defense Acquisition University
(DAU)

WORK HISTORY (CONT'D)

Chief, Avionics Division | Aeronautical Systems Center, Engineering Directorate, Avionics Division (ASC/ENA)

2004-2008, WPAFB, OH

Supervised a team of over 40 electrical, electronic, and computer engineers in providing avionics leadership for ASC's program offices and other organizations—ensured a lean, effective organization executing all avionics tasks required by the Center. Chaired two reviews of the Advanced Integrated Defensive Electronic Warfare System (AIDEWS) radar warning and jamming system for several F-16 Foreign Military Sales (FMS) programs. Led evaluations of program technical maturity, risk areas, and processes instrumental in program success—briefed F-16 Aeronautical Systems Group (AESG) and Warner-Robins Air Logistics Center (WRALC) 542nd Program Directors. Co-chaired the KC-X Complexity Assessment Team which provided an analysis of program requirements, technology available, complexity and risk. Supported briefings to ASC Commander and Vice Commander (ASC/CC/CV) and Air Staff, and effectively briefed several personally. Co-led an independent review team (IRT) of the B-2 Radar Modernization Program (RMP) by evaluating schedule, design and producibility. Participated in a multi-service team in updating Department of Defense (DoD) EW releasability policy. Effective in reorganizing and updating key sections of the existing policy to ensure compliance across DoD. Provided support to Airborne Electronic Attack and B-52 Stand-Off Jammer (SOJ) programs. Participated in B-52 SOJ High Power Team review and SOJ cost estimation. Participated in ALR-69A independent review as requested by ASC/CC. Technical evaluation of integration progress was persuasive in continuing the program despite technical difficulties. Supported F-35 Grayhead review of EW system self-test approach. Devised an innovative approach for consolidation of communications, navigation, surveillance/air traffic management (CNS/ATM) performance matrices, development strategy, breaking a seven-year deadlock with Electronic Systems Center (ESC). USAF platforms are now able to take advantage of more direct worldwide routes with preferential scheduling by air controllers—time and money saved.

Chief | Defensive Systems Branch (ASC/ENAD)

2001-2004, WPAFB, OH

Led a team of over 15 EW technical specialists in support of center programs. Technical accomplishments include effective member of the B-52 radar warning receiver (RWR) program IRT. Findings and evaluations were effective in restructuring the program to provide a basis to support development of a B-52 SOJ capability. Provided technical evaluation of several EW systems on platforms including Joint Unmanned Combat Air Systems (J-UCAS), F-16 and CV-22. Assessment of program EW system designs, risk areas, and cost estimation was critical to providing leadership with information needed to support program decisions. Chaired the National 2002 Joint Electronic Warfare Conference in San Antonio, TX, overseeing all aspects of the conference planning, preparation, and execution, including evaluation and selection of robust operational and developmental EW topics. Served as Session Chair for the 2003 Digital Avionics Systems Conference.

Electronic Warfare Technical Expert | USAF ASC/ENAD

2000-2001, WPAFB, OH

Team lead for Viable Combat Avionics (VCA) assessment of cargo, transport, special operations, and trainer aircraft. Directed technical efforts of four ENA engineers in evaluation of avionics systems' ability to support capability upgrades while resolving production and sustainment issues. Briefed program offices on VCA initiative. Assessment provided Chief of Staff of the Air Force (CSAF) with accurate view of platforms' avionics health for upgrade planning. Lead EW evaluator for Joint Strike Fighter (JSF) source selection. Provided expert assessment of contractors' proposals in EW areas of electronic support measures (ESM) and countermeasures subsystems. Critical analysis supported F-35 selection without protest—largest DOD acquisition in history.

Prior to (2000)

- Chief Avionics Engineer, F-35 Support Office, USAF ASC/FBJ, WPAFB, OH
- Electronic Warfare Technical Expert, USAF ASC/ENAD, WPAFB, OH
- Electronic Warfare Technical Specialist, USAF ASC/YPEA (F-16), WPAFB, OH
- Electronic Combat Engineer, USAF ASC/VXEA Special Operations Forces (SOF), WPAFB, OH
- Lead B-52 Electronic Warfare System Engineer, USAF ASC/YVEA Strategic Systems, WPAFB, OH

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