

PAUL SAGASSER

SENIOR ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 30 years of experience in US Air Force (USAF) weapon systems acquisition. Former chief engineer, integrated product team (IPT) lead, division chief, and lead engineer on multiple weapon system programs spanning development, production, and sustainment. Recognized technical expert and frequent independent review team (IRT) contributor in the areas of computer systems and software for avionics engineering and vehicle management systems for flight systems engineering. NH-04. Department of the Air Force (DAF) (Retired).

PRINCIPAL AREAS OF EXPERTISE

Software Development and Integration

Extensive experience in USAF weapon system software development and component/subsystem integration as lead, technical expert and chief engineer in propulsion (AFLCMC/LP) and engineering (AFLCMC/ENAZ) directorates, as well as C-17, F-22, C-5, and LAIRCM program offices. Systems included flight control, engine control, autopilot and flight director, ground proximity warning, vehicle management, air data, inertial navigation, mission computer, cockpit display and panels, sensors, subsystem controllers (environmental, cabin pressure, fuel, hydraulics, auxiliary power, electrical power), stores management and defensive countermeasures. Responsibilities also included weapon system operational flight program (OFP) and block upgrade capability integration and testing through flight test and field release.

Systems Engineering and Airworthiness Certification

As aircraft survivability and C-5 chief engineer, applied systems engineering processes and acquired the necessary data/products to comply with USAF policy directives. Based on programs' modifications/development activity and engineering/acquisition experience, tailored plans, processes, and criteria to comply with operational safety, suitability, and effectiveness (OSS&E) and airworthiness certification policies to meet user operational needs. As the computer systems and software technical expert, provided engineering assessments on numerous USAF programs for MIL-HDBK-516C, *Airworthiness Certification*, section 15 criteria compliance. Consistently reviewed proposed airworthiness policy and process updates to include criteria, standards, and methods of compliance changes.

Software Engineering

Expert in military and commercial application software engineering processes and certifications. Experience with all past and present military software acquisitions standards and data requirements. Executed software development plans and processes on numerous programs across all acquisition phases, including propulsion, C-17, F-22, and C-5 as the responsible engineer. Reviewed program software plans and processes for C-130J, F-35, KC-46, and others. As IRT member, assessed the Airborne Laser program, Global Hawk, F-15 Short Takeoff and Landing/Maneuver Technology Demonstrator (STOL/MTD), and Advanced Tactical Fighter (ATF) programs' software development processes.



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EDUCATION

MBA, Finance Concentration
University of Dayton

BS, Electrical Engineering
University of Dayton

KEY POSITIONS

Chief Engineer

Aircraft Survivability Division,
Mobility Directorate (AFLCMC/WLY)

Technical Expert

Computer Systems and Software,
Avionics Engineering
(AFLCMC/EZAS)

Chief Engineer/Chief Flight Systems Engineer

716 AESG (C-5) (now
AFLCMC/WLS)

Co-Lead, Airframe & Flight Technology IPT

ASC/WLM (C-17) (now
AFLCMC/WLM)

Chief/Deputy Chief

F-22 Program Planning &
Integration Division

WORK HISTORY

Senior Associate | Dayton Aerospace, Inc.

2018-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 include systems and software engineering development, acquisition, and integration, and airworthiness certification across development, production, and sustainment phases.

Chief Engineer | Mobility Directorate Aircraft Survivability Division (AFLCMC/WLY)

2015-2017, WPAFB, OH

Led and supervised engineering team of 14 civilian, contractor, and military personnel as the chief engineer for the Large Aircraft Infrared Countermeasures (LAIRCM) system for USAF platforms and foreign military sales (FMS) programs. Technical authority for all LAIRCM matters interfacing with leadership in multiple USAF directorates, agencies, and external stakeholders to include Air Mobility Command (AMC), Air Force Special Operations Command (AFSOC), Air Force Research Laboratory (AFRL), Assistant Secretary of the Air Force (Acquisition) (SAF/AQ), Navy, and FMS customers. Led the engineering team through the Production Readiness Review (PRR) and release of Block 30 capabilities.

Technical Expert, Computer Systems & Software, Avionics Engineering | AFLCMC/EZAS

2009-2015, WPAFB, OH

Provided engineering standards and policy guidance to the technical advisor and technical director, including development of a computer systems and software integrity standard. Provided updates to the USAF Weapon System Software Management Guidebook and MIL-HDBK-516, Computer Resources (Section 15)—leading to the release of MIL-HDBK-516C. Participated as the EN lead representative on the SAF/AQRE Weapon System Software Strategic Working Group and provided embedded computer systems and software engineering support to all USAF weapon system programs. Specifically, provided:

- Engineering assessments for F-35, C-130J, and KC-46 airworthiness certifications
- Technical consultation to numerous program offices through design reviews, interchange meetings, technical data assessment, and issue resolution
- Technical support to programs' software cost estimating
- Avionics lead on the Engineering Directorate (EN) independent team for the Combat Rescue Helicopter (CRH) System Requirements Review (SRR) and System Functional Review (SFR)
- Team lead for the assessment and flight release of the "boomer" remotely piloted vehicle for range testing at Eglin AFB; gained approval of military experimental flight release from the EN technical airworthiness authority (TAA)
- Independent evaluations for B-1 and B-2 program technology readiness assessments

Chief Engineer/Chief Flight Systems Engineer | C-5 (now AFLCMC/WLS)

2005-2009, WPAFB, OH

As chief engineer, technical authority on all modernization engineering matters to include the Reliability Enhancement and Re-Engining Program (RERP), Avionics Modernization Program (AMP), and Large Aircraft Infrared Countermeasures (LAIRCM). Led engineering team of 20 civilian, military, and contractor personnel through the RERP program capabilities release—the final C-5M mission designation series modification. Effort included reviewing the flight test verification reports for air vehicle specification compliance, conducting a System Verification Review (SVR) and aircraft Functional and Physical Configuration Audits (FCA/PCA), and airworthiness certification to support AMC's military flight release (MFR) to include familiarization and demonstration flights. As chief flight systems engineer, supervised six engineers in propulsion, structures, air vehicle subsystems, flight mechanics, computer systems/software, and crew systems/human factors disciplines and was the technical authority on all flight systems engineering matters. Led the flight systems team to AMP and RERP modifications first flights and was the program office lead for the C-5M block upgrade program and RERP capability production document (CPD).

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**Co-Lead, Airframe & Flight Technology Integrated Product Team (IPT) | C-17 (now AFLCMC/WLM)
2004-2005, WPAFB, OH**

Technical authority on all C-17 flight mechanics engineering matters. Technical responsibilities included aero performance, stability and control, digital flight controls (displays, actuators, sensors, digital hardware and operational flight programs (OFP's). Also provided guidance and direction to four engineers in the IPT.

**Chief/Deputy Chief, Program Planning & Integration Division | F-22 (now AFLCMC/WWU)
2001-2003, WPAFB, OH**

Led the division responsible for translating and developing strategies and objectives into integrated plans, processes, and tools to support the successful execution of the F-22 modernization program. Managed and received AFPEO/FB approval to award the initial systems engineering delivery order contract (valued at \$63M). Integrated technical and financial data for input to Air Combat Command (ACC) for the FY06 POM. Led the multi-disciplined team that established the statement of objectives, clauses, deliverables, and initial delivery order statement of work (SOW) for the Raptor Enhancement, Development, and Integration (REDI) contract. Developed and directed the ACC and program leadership-approved technical and financial baseline management process. Product included forums, engineering and program management training modules, tools to include a financial margin tracker and modernization strategic roadmap, and requirements prioritization.

Prior to 2000

- Technical Expert, Vehicle Management Systems, Flight Systems Engineering, ASC/ENFT, WPAFB, OH
- Lead Engineer, Weapon System Software Integration, F-22 SPO, WPAFB, OH
- Lead Engineer, Computer Resources, C-17 SPO, WPAFB, OH
- Lead Engineer, Computer Resources, Propulsion SPO, WPAFB, OH

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