

Colin Heffley

Wilmington, DE - Email me on Indeed: [indeed.com/r/Colin-Heffley/e7904654d16eeca](https://www.indeed.com/r/Colin-Heffley/e7904654d16eeca)

My professional experiences have been within the Military and Aerospace Industry (Government Warfighter) and Program Management communities developing and refining operational needs leading to formal requirements definition, verification and validation. Experienced in Program Management Acquisition, Systems Engineering, Systems of Systems (SoS) Integration and Test planning.

Authorized to work in the US for any employer

WORK EXPERIENCE

Systems Engineer

Various

Camber Corporation

C4ISR PEO IEW&S DCGS-A Program Management Office

SETA contractor to the Distributed Common Ground Systems-Army (DCGS-A) Program Management Office (PMO) for the development and testing of DCGS-A systems software and other C4ISR Cyber and Intelligence domains that provide situational awareness, "actionable intelligence", and battle command operations. Major systems and domains supported were IMINT, FMV, MTI, Still Imagery, Geospatial, CHARCS, MFLTS, and TGS. Provided engineering support to the Common Operating Environment (COE) Command Post Computing Environment (CPCE) V2 and V3 project. Tasks performed included SoS engineering and integration; document generation and review; capability upgrades and certification, security, and information assurance (IA) support; test event planning including formal qualification testing (FQT), developmental testing (DT) and operational testing (OT).

Additional responsibilities:

- Coordinated program activities to facilitate DCGS-A and CPCE system development and testing between PEO Systems, Programs of Record (PoRs), and Army/DoD departments, i.e. DOT&E, ASA(ALT), TRADOC etc.
- Acquired knowledge of CPCE current and future applications, widgets and systems to understand how to architect, design, test, and integrate
- Provided assistance throughout the software development lifecycle (SDLC) and requirements engineering
- Supported execution of the CPCE COE capabilities strategy and SoS technical solutions through the tiered systems engineering development/test organizational decision structure
- Reviewed SoS DoDAF architecture products representing the design related to CP CE as well as COE cross cutting capabilities
- Coordinated stakeholder inputs and development activities to resolve issues and manage cross-program dependencies
- Produced and reviewed systems engineering and test documents: TEMP's, Continuous Assessment Strategy (CAS), Verification Strategy, Data Source Matrixes (DSM), System Engineering plans (SEP), System Specifications, COE Control Point Specifications etc.
- Supported the system engineering process, managed requirements including requirements analysis, traceability, integration, test and verification, operations concepts and trade studies through the acquisition lifecycle
- Coordinated with ASA(ALT) and Army C4ISR PoR systems to facilitate interoperability testing

- Supported development efforts and testing of parallel and competing CPCE system baselines and incremental releases to meet mission goals, scalability requirements, and allow for flexible system evolution and agile development all while maintaining legacy applications
- Evaluated plans and schedules for disconnects in software testing and developed closure plans
- Supported change management and risk management activities
- Developed presentations, charts, graphs and reports for design reviews (PDRs, CDRs, and TRRs) and meetings. Provided systems engineering, test and acquisition support in preparation for program milestone reviews

DCS Corporation

Presidential Helicopter Program Office

Primary responsibility was to assist in the design and integration of a digital common avionic system (glass cockpit) into the VH-60N Presidential Helicopter. Resolved software and hardware development issues. Integrated new capabilities and systems to enhance performance and comply with DoD/FAA requirements. Systems upgraded or added were EGI navigation, Digital Map capabilities, Color Weather Radar, Comm Radio suite, Mission Planning, and Next Generation Air Traffic Control capabilities.

Additional responsibilities:

- Conducted and attended technical design reviews, PDRs, CDRs, and tech evals
- Reviewed system documentation
- Prepared statements of work, task orders, and contract deliverables
- Supported DT and OT testing
- Coordinated program activities between NAVAIR and defense contractors regarding program acquisition milestones
- Coordinated upgrades to simulators for training and mission familiarization

The Boeing Company

V-22 and CH-47 Helicopter Programs

Performed engineering functions within the V-22 Operational Software IPT, CH-47 Avionics IPT, and the Lean Engineering IPT.

- Integrated system requirements into avionics documentation and submitted problem/change reports and white papers
- Verified software requirements via qualification, integration, and regression testing for the V-22 avionics platforms and reviewed test documentation
- Prepared statements of work and produced system engineering documents such as requirements matrixes and configuration matrixes
- Developed maintainer data flow diagrams for interactive electronic tech manuals (IETMs)
- Coordinated technical meetings, customer telecoms, and tracked program risk and action items
- Integrated lean initiatives and SEI/CMM software activities

EDUCATION

Masters in Business Administration in Business Administration

Goldey-Beacom College

Bachelor of Science in Electrical Engineering

Pennsylvania State University

Associate in Applied Science in Avionics Systems

Community College of the Air Force

MILITARY SERVICE

Service Country: US

Branch: USAF

Rank: E4

Active duty: Electronic Warfare Systems

Reserves: Avionics Instrument Systems

ADDITIONAL INFORMATION

Embodies a commitment to excellence, thoughtful planning, critical thinking, adaptable to change and able to execute multiple projects in parallel with differing priorities. Incorporates excellent written and verbal communication skills and able to work as part of an inter-disciplinary team or independently. Productive in a fast-paced dynamic environment and seeks an understanding of the "big picture."