

Professional Summary

Electronics and Systems Engineer with 9 years of professional experience. Excels at adapting to new technologies in a changing environment. Excellent teamwork, leadership, and communication skills. Looking for opportunities as a systems or electronics engineer involving consulting, technical project management, or system integration. Clearance details can be provided upon further inquiry.

Skills

- Systems Development Life Cycle
- Operation & Maintenance Support
- Sustainment Support
- Military Construction / Facilities
- Telecommunications
- Avionics Integration
- Project Management
- Systems Engineering
- Risk Management

Education

- **Masters** (Systems Engineering) – Pennsylvania State University **2015**
- **Bachelors** (Electrical Engineering) – University of Florida **2009**

Experience

Systems Engineer (GS-14) – Department of Homeland Security; Arlington, VA **Sep 2018 to Present**

- Serves as the Requirements and Architecture (R&A) lead by reporting status on all efforts within the branch to division leadership and decision authorities.
- Leads the Model Based Systems Engineering (MBSE) working group within the Customs and Border Protection (CBP) Systems Engineering Division (SED), spearheading the conversion of SED into a MBSE-centric organization.
- Supports ailing programs by developing context diagrams, generating use cases, and providing requirements guidance thereby allowing programs suffering from minimal engineering support to continue on to later acquisition phases.
- Serves as the Alternatives of Analysis study team lead for a level 3 (\$300M) and level 1 (\$1B) program by writing the analysis study plan and overseeing its execution. Saved the government \$500k by self authoring study plan, rather than relying on contractors (status quo).
- Generates Plan of Action & Milestones documents (POAMs) for inclusion into SED's Fiscal Year spend plan capturing the funding needs of the R&A department and the potential impacts if not funded.

ACCOMPLISHMENTS: Generated context and use case diagrams for the Land Ground Detection System (LGDS), an ailing program with a short suspense; Authored the Alternative Analysis Study Plan for the Office of Trade's (OT) Advanced Trade Analytics Platform which introduces big data analytics to the OT cargo environment; identified and implemented MBSE tools for use by CBP components and their programs.

Electronics Engineer (GS-13) – United States Navy; NS Norfolk, VA **February 2015 to Sep 2018**

- Represented the Navy Computer Telecommunications Area Master Station Atlantic (NCTAMS LANT) as the primary technical adviser for Military Construction (MILCON) projects supporting the design of \$275M of new facilities.
- Coordinated with Architecture & Engineering firms to provide building requirements, and equipment selection for use in both office spaces, and operational spaces resulting in properly equipped watch-floors, offices and labs.
- Provided Navy Facilities Command (NAVFAC) with oversight and direction to provide facilities that meet NCTAMS LANT mission requirements providing facilities that were more resilient to attacks, and mishaps.
- Participated in thorough value engineering exercises to reduce project overruns, and prioritizing mission needs, allowing urgently needed facilities to continue towards construction.
- Worked with equipment technicians to determine Outside Cable Plant requirements, guaranteeing sufficient cable infrastructure at new sites.
- Served as a technical Subject Matter Expert (SME) on Source Selection Boards for various MILCON efforts, assuring stakeholders that the contractor award would result in a technically competent contractor.
- Served as the NCTAMS LANT technical point of contact for Command, Control, Communications, Computers (C4) equipment relocation efforts occurring post-Beneficial Occupancy Date, resulting in designs that relocated over \$200M in C4I equipment with minimal impact to operations.

- Reviewed engineering documents including: Technical Data Packages (TDPs), Requirement Analysis Documents, Audio-Visual plans, and Base Electronic Systems Engineering Plans to ensure each MILCON addressed NCTAMS LANT's key mission gaps and needs.
- Evaluated audit and assessment reports, and generated technical responses to ensure fair budget adjustments were being made, and to recoup those losses if they were not.
- Served as the client representative for Operation & Maintenance contract management for Automated Network Control Center serial patch panels at fleet broadcast sites ensuring contractors were adequate on training, certifications and performance.
- Led and participated in working groups addressing: concerns, requirements, POAMs, and system dependencies for numerous sustainment efforts, allowing work to be completed on schedule, within budget, and in the interest of NCTAMS LANT's mission needs .

ACCOMPLISHMENTS: Brought MILCONs P-913 and P-621 (\$114M and \$20M) from kick-off to final design and coordinated \$165M in equipment relocation for these projects; Created a risk-assessment report identifying the impact if facility funding was not delivered in a timely manner. This report format was used by others in the Naval community to support similar efforts; Created a risk-remediation package on existing facilities outlining the best courses for mitigation.

Systems Engineer (GS-12) – United States Air Force; Robins AFB, GA

August 2010 to February 2015

- Served as the technical authority for numerous avionics acquisition efforts ensuring seamless integration of new capabilities across the USAF's entire fleet of HH-60G helicopters.
- Served as the HH-60G technical authority for numerous sustainment efforts thereby providing warfighters with continued aircraft availability in the field of operations, including the Middle East.
- Ensured efforts met stringent airworthiness and safety requirements and presented completion of those requirements to a Configuration Control Board allowing projects to proceed to Testing and Evaluation phases.
- Conducted hazard analyses on assigned acquisition efforts then provided mitigation for those that could not be accepted outright. This provided complete transparency to leadership and ensured potentially harmful hazards were accounted for.
- Conducted thorough market research to evaluate available technologies that fulfilled mission capability gaps. The resulting report provided leadership with the requisite information needed to pursue follow-on acquisition efforts.
- Served as a platform SME for the development of new and cutting-edge technology thereby allowing contractors and laboratories to develop products to address unique capability gaps.
- Coordinated new acquisition and sustainment efforts with both Contracting and Small Business Offices to ensure that legal obligations, as defined by the Department of Defense were met thereby mitigating risk of costly protests.
- Evaluated contractor cost proposals for legitimacy of labor hours, material amounts and costs contained within. The resulting technical evaluation reports assured leadership that a fair & reasonable price were being charged for efforts.
- Supported environmental, electromagnetic, and Developmental Testing by providing Military-Standard requirements. Served witness to these tests for verification that sub-components met these requirements.
- Provided SME support to contractors allowing integration new products into the airframe with minimal rework.
- Reviewed depot-level requests augmentation of technical drawings so as to provide the necessary work-arounds (or clarifications) needed to successfully complete equipment installations.
- Supported the Defense Logistics Agency to address issues of material obsolescence by identifying replacement parts or approving reverse engineering efforts to allow for continued aircraft suitability.
- Aided in the troubleshooting or repair of non-functioning systems that were deemed too complex for general maintenance efforts thereby allowing the warfighter to continue combat search and rescue support.
- Served as the substitute HH-60G section Engineering Chief when primary was absent. Briefed division leadership on all matters technical thereby allowing the continuation of engineering operations.

ACCOMPLISHMENTS: Successfully integrated the following systems into the platform within a four (4) year time span: Lightweight Airborne Recovery System version 12 (LARS v12); The Improved Altitude Hover Hold Stabilization (IAHHS) system; The HH-60G Avionics Communication Suite Upgrade (ACSU); The Forward Looking Infrared (FLIR) Enhanced Local Area Processing (ELAP) upgrade; The ARC-222 SINCGARS VHF High Power Amplifier; The Air National Guard's Slingload Water Air Transportation System (SWATS).