

NATHANIEL J FOSTER

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Work Experience

Systems Engineer

June 2018 - Present

Lockheed Martin, RMS Moorestown

- Developed, integrated, maintained, and tested Baseline (BL) 9 & 10 variations of the Command and Decision (C&D) product as a member of the Aegis Combat System Integration (ACSI) Team. The ACSI team is an Agile project management team operating on all levels of the systems engineering V-chart.
- Provided mentorship as a technical POC for junior engineers
- SECRET DoD government clearance required for job tasking
- Projects & Technical Areas of Focus:
 - o ACB16 BL921 & BL922
 - C&D and Vehicle Control Domain Baseline Delivery Lead
 - Supported program planning - cost, schedule, technical risk
 - Coordinated with Program Office to ensure proper staffing
 - Monitored contract charging to ensure adherence to program spending plan
 - Managed JIRA records to support Agile development and Digital Transformation initiatives
 - Coordinated tasking of C&D Systems and Software teams to support product development, product maintenance, and baseline certification
 - o Elevated Radar Advanced Calibration Experiment (ERACE)
 - Deputy Technical Director
 - Coordinated lab resources, ERACE product teams, and product integration
 - Supported naval customer meetings
 - C&D Baseline Delivery Lead
 - Coordinated between C&D programs to identify and support program interdependencies
 - Determined C&D tasking and task priority
 - Provided the program office with estimated time to completion budget plans
 - Subject Matter Expert
 - Stood up BL923 SPY1 Radar Track Manager function
 - Implemented initial CYCLONE/RTSC automation script testing for BL923
 - o Digital Air Control Two Way Data Exchange (DAC TWDE)
 - Subject Matter Expert
 - Supported Navy requested DAC re-introduction effort
 - Performed analysis and maintenance of Air Control re-architecture effort
 - o TACAIR
 - Subject Matter Expert
 - Implemented TACAIR Phase 1 on Aegis BL921, BL922, BL923, and BL10
 - Selected to perform C&D TACAIR Phase 2 trade study
 - Provided test support to Integrated Fire Control (IFC) live demonstrations and test events
 - o Valiant Shield 2020 - F-35 MADL Integration
 - Performed analysis of Kalman Track Filtering to produce pseudo associated measurement reports from smoothed data
 - Integrated F-35 fire quality tracks into a Virtual Aegis Weapon System (VAWS) completing an IFC loop with Standard Missiles and Patriot Advanced Capability - 3 (PAC-3)
 - Supported Surface Navy Innovation Center VAWS integration testing
 - o AIR 6500
 - Evaluated integration of Aegis Command and Control processing into a next generation Joint Battle Management System to support Australian Defense Force IFC loops of previously disconnected systems
 - o Accelerated Mid-term Interoperability Improvement Project (AMIIP)
 - Performed analysis and maintenance of processing to avoid data ringing and maintain a common track data picture on multiple units operating on multiple datalinks
 - o Identify Friend or Foe (IFF)
 - Performed verification of IFF objective-design integration on BL9A2A

Education

Johns Hopkins University (JHU), Baltimore, MD
Master of Science in Computer Science

January 2020 - Expected
December 2023

Rensselaer Polytechnic Institute (RPI), Troy, NY
Bachelor of Science in Electrical Engineering

August 2015 - May 2018
(3 Years)

- Rensselaer Leadership Award
- Dean's List
- American College Hockey Association Academic All American

Skills

Applications: Microsoft Office Programs, CAD (Auto & NX10), Git, Atlassian JIRA, DOORS, Rhapsody, Confluence, Virtual Box
Computer Languages: Java, C, C++, MATLAB, MATLAB Simulink, LabVIEW, OrCad PSpice, Linux Redhat, Kali Linux

Interests

Lockheed Martin Moorestown Ice Hockey

June 2018 - Present