

Carlos Pantoja-Malaga

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Education & Credentials

Florida State University

Bachelor of Science - Computer Science

Tallahassee, FL

Aug. 2019 - May 2023

Professional Experience

General Dynamics Electric Boat

Groton, CT

Systems Engineer II - Integrated Power Systems

Nov. 2024 - Present

- Lead Engineer for COLUMBIA class submarine power distribution test event.
 - Defined the scope of work, required work items, and liabilities to outline the milestones required to achieve the necessary submarine construction state to achieve the capability for Electric Plant functional testing.
 - Developed a comprehensive timeline deliverable to track milestones, prioritize component build states for critical path, and identify instances for concurrent work and parallel testing.
 - Led meetings as the representative of the systems group to coordinate Component Engineering, Operations, and Program Management to identify and burndown liabilities to schedule risk.
- Proficient in cross-functional collaboration with diverse teams.
 - Effective in facilitating meetings, engaging SMEs, handling action items, determining and contributing to technical solutions.
 - Engage team members, developed databases and work aides to eliminate redundant tasks.

Systems Engineer I - Integrated Power Systems

Aug. 2023 - Nov. 2024

- Supported COLUMBIA Class submarine test programs.
 - Evaluated problem statements from Shipyard Test Organization and Propulsion Engineering to support testing and commissioning of Propulsion and Electric Plant components.
 - Delivered electrical test equipment drawings, providing required material and engineering direction for installation of temporary power to production interfaces.
 - Performed requirements analysis for problem statements to ensure safe, optimal, and successful testing of components while meeting the intent of the test procedure.
 - Applied systems engineering principles, consulting and engaging stakeholders, tracking requirements and deliverables, and maintaining realistic timelines for product delivery.
 - For electrical test equipment, adhered and referenced commercial standards when applicable (UL, SAE). Leveraged National Electric Code (NFPA 70) as much as possible for best practices.
 - Employed use of MBSE software, Siemens TeamCenter, to evaluate submarine arrangement and modeled components.
- Provided field engineering support for submarine high voltage cable installation.
 - Supported team of electricians performing first of program installation for submarine high voltage cable termination and installation.
 - Evaluated engineering procedure and work instruction with electricians to ensure satisfactory and compliant installation to production interfaces.
 - Worked with SMEs to overcome field issues not accounted for in engineering procedure, ensuring the intent of the procedure is met as written and documenting liabilities for future submarine construction.