

Carlos Pantoja-Malaga

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Professional Experience

General Dynamics Electric Boat

Groton, Connecticut

Engineer II - Integrated Power Systems Construction Support

Nov. 2024 - Present

- Supported Columbia Class Submarine Turbine Generator Set assembly.
 - Provided assembly and test procedures for Turbine Generator Set cable installation.
 - Collaborated with Operations and Propulsion Engineering to evaluate scope of work for procedures, ensuring that the engineering deliverable would be able to be properly and accurately executed.
 - Exercised model based software engineering using Siemens TeamCenter to evaluate Turbine Generator design layout, cable routes, and accessibility for trades.
 - Provided engineering support for receipt inspection and initial testing of as-delivered cabling to electricians.
- 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 capability of Electric Plant testing.
 - Collaborated with Operations, Ship's Management, and Electricians to determine critical path components to prioritize trade work and engineering support.
 - Provided deckplate support to electricians, evaluating unsatisfactory conditions, providing engineering rationale and direction supported by reviewed references.

Engineer I - Integrated Power Systems Construction Support

Aug. 2023 - Nov. 2024

- Supported Columbia Class Submarine construction by providing on-site engineering support.
 - Supported a 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 compliant installation to production interfaces.
- Supported Columbia Class Submarine test program by providing engineering direction.
 - Evaluated problem statements from Shipyard Test Organization and Propulsion Engineering to support test and commissioning of Propulsion and Electric Plant components.
 - Delivered electrical test equipment drawings, providing the required material and engineering direction for installation of temporary power to production interfaces.
 - Applied systems engineering principles, consulting and engaging stakeholders, tracking requirements for deliverables.

Education

Florida State University

Tallahassee, Florida

Bachelor of Science, Computer Science

Aug. 2019 - May 2023

ABET Accredited, Minors in Physics and Mathematics

Volunteer Service

Waterford High School Athletics

Waterford, Connecticut

Varsity Lacrosse Program Assistant Coach

Feb. 2024 - Aug. 2024