Carlos Pantoja-Malaga

linkedin.com/in/carlos-career • dev.pantojamalaga@gmail.com • (239) 834-2806

Education

University of Connecticut — Storrs, CT
Graduate Certificate, Power Systems Engineering — Jan. 2026 – Present

Florida State University — Tallahassee, FL
ABET Accredited Bachelor of Science, Computer Science — Aug. 2019 – May 2023

Professional Experience

General Dynamics Electric Boat — Groton, CT
Systems Engineer II – Integrated Power Systems — Nov. 2024 – Present

- Selected as the lead project engineer for submarine initial power distribution test event.
    - Delivered the initial scope of work to achieve successful test event. Outlining the required electrical systems and components required to achieve the necessitated construction state to support the safe and controlled energization of the submarine electric plant.
    - Collaborated with construction operations and test organization to identify critical path components based off the initial scope of work deliverable, allowing for the prioritization of trade work and delivery of components to the test organization to support parallel construction and test.
    - Provided field engineering support to test organization for the execution of first time electrical test procedures. Supported test technicians with technical guidance and recorded procedural issues for design agent adjudication. Directly supporting future test schedule through overcoming first of class procedural issues.
- Delivered engineering direction for troubleshooting electrical components throughout submarine test program.
    - Performed multiple instances of successful troubleshooting for unexpected behavior during initial energization of components. Comfortable navigating vendor control schematics and architecture documentation to isolate specific subsystems or circuits.
    - Resolved critical ground fault during initial commissioning of power distribution operator panel. Splitting system interfaces to trace the short circuit to internal subcontractor delivered equipment. Ultimately, identifying the cause as an unincorporated design change to the delivered component.
    - Implemented detailed documentation of test procedure execution and troubleshooting guidance to improve future training and reference material.

Systems Engineer I – Integrated Power Systems — Aug. 2023 – Nov. 2024

- Tasked with delivering electrical test equipment deliverables for installation of temporary power to support electrical component testing under various construction states and sites.
    - Evaluated problem statements from test organization and propulsion engineering to support test and commissioning of ship's components via the provision of temporary power.
    - Delivered electrical test equipment deliverables, providing the required engineering direction and material for installation of temporary power to production interfaces while meeting the required system requirements.
    - Evaluated system level requirements and applicable standards to validate temporary configurations. Notably, referencing military standards for power and systems specifications for production interfaces and national electrical code for best practices when interacting with facility interfaces.