

Carlos Pantoja-Malaga

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Education

University of Connecticut
Graduate Certificate, Power Systems Engineering

Storrs, CT
Jan. 2026 – Present

Florida State University
ABET Accredited Bachelor of Science, Computer Science

Tallahassee, FL
Aug. 2019 – May 2023

Professional Experience

General Dynamics Electric Boat
Systems Engineer II – Integrated Power Systems

Groton, CT
Nov. 2024 – Present

- Selected as the lead project engineer for submarine initial power distribution test event.
 - Delivered the initial scope of work for the 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 determine the critical path components based on the initial scope of work deliverable. This allowed for prioritization of trade work for delivery of components to test organization and supported the capability of 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 relayed procedural issues to the design agent for adjudication. Directly supporting future test schedule with the resolution of first time procedural issues.
- Delivered engineering direction for troubleshooting electrical components during submarine test program.
 - Performed multiple instances of successful troubleshooting for unexpected behavior during initial energization of submarine electrical components. Comfortable navigating vendor control schematics and architecture documentation to isolate specific subsystems or circuits.
 - Resolved critical ground fault issue during initial commissioning of power distribution operator panel. Splitting system interfaces to trace the short circuit to be internal to subcontractor delivered equipment. Ultimately, identifying the cause as an unincorporated design change to delivered equipment.
 - Implemented detailed document of test procedure execution and troubleshooting guidance to improve future training, ship construction schedule, and reference material.

Systems Engineer I – Integrated Power Systems

Aug. 2023 – Nov. 2024

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