Carlos Pantoja-Malaga

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Education

Florida State University — Tallahassee, FL
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

- Lead Engineer for COLUMBIA class submarine power distribution key test event.
  - Defined scope of work, including required work items, liabilities, and milestones to achieve necessary submarine construction state to achieve capability for testing.
  - Developed a comprehensive Microsoft Project deliverable to track all work items and determine critical path, tying related work items and identifying predecessors and successors.
  - Led meetings to coordinate Engineering and Operations to identify and burndown liabilities to schedule risk.
- Proficient in cross-functional collaboration and providing concise verbal and written communication.
  - Effective in facilitating meetings, engaging SMEs and stakeholders, and handling action items.
  - Practiced lateral leadership to improve quality of products being developed by team, creating work aides, templates, and supporting documentation to eliminate redundant tasks.

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

- Tasked with supporting COLUMBIA class submarine test program.
  - Evaluated problem statements from Shipyard Test Organization and Propulsion Engineering to support testing and commissioning of Propulsion and Electric Plant components.
  - Delivered build to install schematics, providing required material and engineering direction for installation of temporary power to production interfaces.
  - Applied systems engineering principles by consulting and engaging stakeholders, tracking deliverables, and maintaining realistic timelines for product delivery.
  - Referenced and adhered to commercial standards where applicable (UL, SAE), for electrical test equipment, applied NFPA 70 National Electric Code where viable.
  - Employed use of MBSE software, Siemens TeamCenter, to evaluate submarine arrangement and modeled components.
- Tasked with providing deckplate engineering support for high voltage cable installation.
  - Provided onsite engineering support to trades team performing first of program installation procedure for submarine high voltage cable termination.
  - Evaluated engineering procedure and work instruction with electricians to ensure satisfactory and compliant installation of submarine high voltage cable to production components.
  - Worked with SMEs to overcome field issues not accounted for in engineering procedure, meeting intent of procedure as written while documenting liabilities for future submarine construction.