

## Jesus Samaniego Sanchez

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**PROFESSIONAL SUMMARY:** Dedicated student veteran with proven ability to not only repair, troubleshoot and maintain aircraft support systems but also complete electrical engineering projects that require design, development, and testing.

**SECURITY CLEARANCE:** Active DoD Top Secret (07/2021) and SAP (09/2022)

### EDUCATION:

- San Diego State University: B.S in Electrical Engineering, **GPA 3.65** (Exp. Grad: May 2023)
- U.S Dept. of Labor apprenticeship: Electrician (any industry), 8000 hr.

### TECHNICAL SKILLS:

*Lab Equipment:* Vector Network Analyzer, Spectrum Analyzer, Oscilloscope, DMM, Power Supplies  
*Software /Prog. languages:* LabVIEW, LTspice, ALTIUM, KICAD, HFSS, Visio, SOLIDWORKS, C, MATLAB

### EXPERIENCE:

*Electrical Engineering Intern, Northrop Grumman* (Redondo Beach, San Diego) (May 2021 – Present)

- Supported aircraft payload integration efforts by analyzing interface control documents, creating detailed system diagrams, and developing custom electrical/RF harnesses IAW company specs.
- Planned and participated in evaluation events for antenna array characterization via anechoic chamber testing effectively increasing hardware under test's technology readiness level.
- Designed and tested 64-pin wire harness IR loss automated testing system using LabVIEW graphical coding language and NI hardware like DMMS, SMUs and programmable multiplexers to support the Satellite Payload and Test Suit team. Created user manuals to ensure proper use after delivery.

*Senior Design Electrical and Computer Engineering Lead* (San Diego) (Aug 2022 – May 2023)

- Supervised the electrical and software development on robotic payload delivery arm for a Booz Allen Hamilton unmanned marine surface vessel.
- As system architect I created system block diagram to meet theory of operation requirements. Delivered PDR, CDR along with continuous status updates to supervising agencies in both technical and logistical areas. Assisted the expansion of team's technical proficiency by teaching development tools best practices when designing PCBs, wiring harnesses and 3D models.

*Collateral Duty Inspector/ Work Center Supervisor, U.S Marine Corps* (Jan 2017 – May 2019)

- Inspected and verified 1000 man-hours of maintenance leading to a 100% readiness of ground support equipment used by crisis-response aircraft in the Northern African and Southern European area of operation for a period of nine months. Awarded Certificate of Commendation.
- Ensured that all shop technicians adhered and complied with naval aviation safety regulations and manufacturer specifications assuring quality in over 3,000 maintenance actions.
- Monitored for and organized delivery of refresher technical training on a bi-monthly basis for 20 technicians within the department.

*Aircraft Support Equipment Technician, U.S Marine Corps* (Nov 2014 – May 2019)

- Volunteered to conduct unprecedented aircraft maintenance actions aboard the USS Kearsarge in support of search and rescue operations during 2018's hurricane Florence. Prevented 30 days of aircraft readiness delay. Awarded the Navy and Marine Corps Achievement Medal.
- Performed rewiring, instrument test and check, regulation adjustment and fault protection component maintenance actions of 115/220 VAC 400/60 Hz and 270/28 VDC power plants.
- Serviced and repaired diesel power sources resulting in defective generators returning to a "ready for use" status and ensured all 30 of them remained in a functional condition thereafter.