

JAY DIORIO

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SUMMARY

Electrical Engineering junior at San Diego State University and U.S. Navy veteran with extensive experience in signal intelligence. Interests in DSP, RF, FPGAs, and Embedded.

EDUCATION

San Diego State University

January 2022 - Spring 2024

BS Electrical Engineering

GPA: 3.67 / 4.00

EXPERIENCE

Northrop Grumman

May - Aug 2022

Navigation Engineer Intern [Secret Clearance]

Aeronautics Systems

- Supported electromagnetic interference testing to qualify a Differential GPS receiver for flight on Triton UAV program
- Produced MATLAB scripts to process flight test data and analyze the accuracy of navigation hardware
- Drafted interconnect diagrams for Triton navigation system

Northrop Grumman

May - Aug 2020, May - Dec 2021

Electromechanical Standards Engineer Intern

Aeronautics Systems

- Reviewed wire harness designs for Triton UAV to ensure military and industry requirements were met
- Investigated performance data of aircraft electronic parts to suggest replacements for under-qualified parts
- Marked electrical and electronic parts in supply chain to reduce risk of counterfeit

San Diego Mesa College

Sep 2019 - May 2020

Work Study

- Provided technical support for campus library and computer lab
- Volunteered as a weekend tutor for STEM students

U.S. Navy

Jul 2015 - Aug 2019

Cryptologic Technician [TS/SCI Clearance]

- Supervised the data collection, decryption, and analysis of over 410,000 analog and digital signals, and authored over 650 highly classified technical reports with an accuracy rate of 95 percent for national defense agencies
- Troubleshoot, tested, calibrated, and maintained 790 equipment items for classified RF systems and essential shipboard electrical and mechanical systems
- Trained 11 sailors to interpret engineering drawings and perform maintenance on shipboard electrical and mechanical systems in accordance with safety procedures.

PROJECT LIST

Interactive Assembly Project - Built an interactive MIPS Assembly program where a user can defuse randomly generated bombs in a grid within a specified amount of time. Prototyped in C and translated to MIPS, utilizing nested loops, stack management, and conditional branching.

Statistical Analysis Project - Produced a script to examine if the electricity charge rate per Kwh had correlation with electricity usage across 50 U.S. states. Utilized MATLAB.

SKILLS

MATLAB, C, LTSpice, MIPS Assembly, MS Office Suite