Christopher Michael Bowman
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EDUCATION

San Diego State University 08/2016 - 05/2022
Bachelor of Science, Electrical Engineering

Campus Involvement: Member of Troops to Engineers

- *Created a Freshman Starter Pack to assist incoming freshman in choosing relevant classes and connecting them with relevant community resources to assist in retention of students pursing Electrical Engineering degrees*

TECHNICAL SKILLS and QUALIFICATIONS

- C
- Xendee
- Multisim
- Schematic Design
- MATLAB/Simulink
- ETABS
- Python
- PCB Design
- Altium
- Autodesk
- AutoCAD
- Assembly
- Microsoft Office
- Feedback Systems
- Clearance –(Active) Secret

RELEVANT PROJECTS

Self-Securing Landing Mechanism for VTOL Autonomous Vehicle 08/2021 -Present
San Diego State University (sponsor: Northrop Grumman Corporation)

- Designing wireless communication between a drone and a landing platform for securing without user interaction.
- Assisting in the design and circuit implementation with a joint ME/ECE team.

Hydrokinetic Project 05/2021 – Present
Naval Information Warfare Center, Pacific

- Designed a small-scale fully functional hydrokinetic renewable-energy source to recharge 12-volt batteries in LTSpice
- Created the PCB board in Altium, successfully printing and testing it in the Energy Innovation Lab (EIL)

In-Service Engineering Agent (ISEA) 10/2021-Current
Naval Sea System Command (NAVSEA) - Port Hueneme

- Field Engineer in training pending graduation from SDSU; expected May 2022.
- Plans, Coordinates and provides service for the Optical Dazzling Interdictor Navy (ODIN) laser system.
- Provides Engineering Change Proposals (ECPs) for ships system while maintaining optimal system integrity and efficiency.

Electrical Engineering Intern 04/2019 – 10/2021
Naval Information Warfare Center-Pacific (NIWC) Point Loma

- Converted a micro-grid layout of a military base from ETAP to XENDEE while ensuring the design stayed within industry power-distribution compliance regulations.
- Utilized Altium to design Printed Circuit Boards (PCB) to integrate an Arduino Nano to an independent system to add the ability to analyze data produced by the systems testing of water toxicity on a Navy vessel.
- Served as the Electrical Engineer on a cross function team composed of a Mechanical Engineer, Software Engineer, and a Computer Scientist to integrate multiple devices into deployed research vessels for lead engineer projects.
- Optimized research concepts to convert an electrical motor into an underwater generator by designing circuits using Circuit Theory to use water to charge a 12-volt battery.
- Served as the subject matter expert for auxiliary projects focused on amplifier circuits, voltage optimization, digital and analog feedback systems.

Engineering Technician II 05/2017 - 08/2018
Epsilon Systems

- Provided contract support to NAVSEA and the U.S. Navy for refurbishing and maintaining 15 electronic warfare related systems.
- Experience with various warship decoy launching system instillation and removal.
- Assisted and lead in scenario driven troubleshooting with related systems to isolate faults and malfunctions.
- Provided the Navy with a unique tool design that is currently being patient to better assist future technicians.

Cryptologic Technician/Electronic Warfare Technician 03/2010 - 03/2014
United States Navy

- Experience Anti-ship missile defense operator with dealings in NSA signal evaluations associated with non-threating/threating emitters, real-time signal processing, and RADAR satellite correlations.
- Implemented standards for Electronic Warfare for the Information Dominance Warfare Pin qualifications on the ship stationed on.