

# CRAIG OPIE

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## Education

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**University of Hawai'i at Mānoa** August 2018 - Present

**MSc in Computer Science (Cybersecurity Focus)** 3rd Semester

**BSc in Computer Science (Cybersecurity Focus)** GPA: 3.21

**Nuclear Power 'A' School and Prototype (Electronics Technician)** GPA: 3.64

## Skills

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**Languages:** C/C++, Python, Javascript, Java, Swift, C#, Go

**Technologies:** React.js, Node.js, MySQL, Postgresql, AWS, Bash, Git, Docker, Kali Tools

## Professional Certifications

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**CompTIA:** A+ (expired), Security+ (expired), Project+ (expired)

**EC-Council:** Certified Ethical Hacker

**ISC²:** CISSP (Associate)

**NASA:** NASA-STD-8739 (Soldering and PCB Repair)

## Professional Experience

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**Remedy Heating and Cooling** Tampa, FL - Full Time Remote Worker

Full Stack Web Development - Senior Software Engineer

April 2022 – Present

- Created workflow and timeline using agile project management methodology
- Managed version control system while deconflicting and testing branches prior to merge and release
- Analyzed and corrected source code for quality using source code smells and metrics
- Designed backend relational database and frontend user interface
- Lead cybersecurity efforts to ensure the web server and source code were proven using pentesting

**Death Star Development** Honolulu, HI - Full Time

Embedded Systems Engineer - Software Engineer

July 2019 – April 2022

- Developed memory management plan for MCUs featuring MPUs with techniques to detect and prevent memory corruption, enhance security, and improve reliability.
- Configured project specific operating systems to include RTOS and Embedded Linux
- Secured Embedded Linux to meet DISA-STIG requirements of the DoD
- Designed and manufactured MCU circuits and PCBs using Eagle and Altium Designer

**Hawai'i Space Flight Laboratory** Honolulu, HI

Avionics Engineer - Avionics Team

March 2019 – July 2019

- Designed, manufactured, and licensed computer boards, communications radios, and power systems for small and micro satellites.
- Developed the Hawai'i Space Flight Laboratory's radiation test processes and procedures
- Integrated and tested components from various vendors to ensure reliability through APIs

## **US Navy Nuclear Power Electronics Technician**

August 2004 – August 2018

**USS Tucson (SSN 770)** Honolulu, HI

### **Project Management Director - Reactor Control Division**

March 2014 – August 2018

- Oversaw three overseas preventative and corrective maintenance projects, requiring strategic planning, design, marketing, and vision
- Developed new procedures and workflow channels to increase producting and equipment reliability
- Managed successful restructuring of organization during downturn of performance on certifications

## **Naval Nuclear Power Training Command** Charleston, SC

### **Director of Personnel Indoctrination**

January 2013 – March 2014

- Directed senior staff, facilitators, and general operations of \$210-million organization
- Corrected insufficient manning of the entire US Nuclear Fleet by restructuring the personnel indoctrination and security screening process
- Directed all facets of personnel indoctrination, including transportation and travel, marketing, equal opportunity, training and educational development, human resources and operations
- Reduced personnel processing cost from \$28.8-million to \$16.8-million

### **Chairman and Project Management Director**

September 2011 – March 2014

- Oversaw recruiting, construction, distribution, and operations of 62 simultaneous projects across 35 separate locations utilizing 2083 personnel
- Contributed to original startup team to improve community relations throughout the Southeast Region
- Grew participation to be the largest organizational impact throughout the entire nation
- Exceeded plans for growth, achieving donated revenue of \$1.2-million from local communities and corporations

### **Digital Microprocessor Design and Fundamentals Instructor**

April 2011 – September 2013

- Assisted in the development and facilitation of 150 course hours, teaching the theory and fundamentals of digital electronics
- Led the development of 10 labs, 22 hours of instruction, detailing the understanding, elaboration, and troubleshooting of digital electronics
- Taught 16 classes consisting of 25-32 students in the area spanning electron flow and construction of semiconductive devices to the design and machine code programming of a Pentium Pro microprocessor, with a resultant average of 3.37 GPA on a 4.0 GPA Scale

**USS Miami (SSN 755)** New London, CT

### **Project Management Director - Reactor Control Division**

April 2006 – April 2011

- Directly responsible for the operation and control of a Naval Nuclear Power Plant. This required compliance with complex procedures/instructions for plant operations and handling classified material

## **Projects and Hobbies**

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### **Robotics, Rockets, and PCBs** Honolulu, HI

Participating and Training New Generations

April 2018 – Present

- Train university, community college, and high school students on NASA-STD-8739 soldering specifications and techniques
- Developed Electronic Power Supply (EPS) for use by payloads and rovers in various applications
- NASA Student Launch Project Rookie of the Year Awardee
- Amateur Radio Enthusiast - Call Sign: W6DSD