Sam Leonard

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EDUCATION

Oregon State University: Corvallis, OR   Expected graduation June 2022
Bachelor of Science in Electrical and Computer Engineering   GPA 3.90
Bachelor of Science in Mathematical Economics

EXPERIENCE

Undergraduate Learning Assistant, Oregon State University: Corvallis, OR
Assistant for Digital Logic Design Laboratory   Sept. 2020 – Present
- Administer and grade lab sessions which apply concepts covered in lecture: data types, Boolean algebra, state machines, simplification of switching expressions, introductory computer arithmetic, and digital circuit design and troubleshooting
- Instruct students in the use of tools such as Quartus Prime Lite, ModelSim, and Verilog to program an Intel FPGA for various projects, including adders, seven segment display controllers, VGA output, and external device communication

First Class Petty Officer, United States Navy: Pearl Harbor, HI
Submarine Nuclear Electronics Technician   Jan. 2014 – Dec. 2017
Submarine Reactor Controls Division Leading Petty Officer   Mar. 2016 – Dec. 2017
- Maintained all required administrative paperwork and oversaw divisional and departmental training, evaluation, qualification and watch-standing for a team of nine nuclear electronics technicians during two Western Pacific deployments
- Combined understanding of electrical fundamentals, digital logic design, and operational experience to create and perform troubleshooting procedures for microprocessor-based nuclear reactor instrumentation and control equipment
- Coordinated, directed, and performed hundreds of routine maintenance items of varying complexity while ensuring the fulfillment of all technical, operational, and procedural specifications and maximizing equipment functionality
- Generated weekly, monthly, quarterly, and annual schedules for maintenance and training to meet Reactor Plant Manual periodicity requirements while maintaining flexibility to meet ever-changing departmental, ship-wide, and shipyard schedules

Nuclear Electronics Technician Training
Electronics Technician Maintenance School: Pearl Harbor, HI • GPA 4.00   Oct. 2016 – Dec. 2016
Nuclear Prototype: Ballston Spa, NY • GPA 3.07   Mar. 2013 – Jan. 2014
Nuclear Power School: Charleston, SC • GPA 3.68 • *Graduated with Honors*   Aug. 2012 – Mar. 2013
Nuclear Field "A" School: Charleston, SC • GPA 3.72 • *Graduated with Honors*   Dec. 2011 – Aug. 2012

SKILLS

- Proficient in DE-10 Lite FPGA programming using Quartus and ModelSim
- PCB design
- C++, MatLab, Arduino, Verilog, AVR
- Circuit analysis/troubleshooting/repair
- Writing Technical Documentation

PROJECTS

- *Spring 2020:* Programmed DE10-Lite FPGA to interface with PS/2 keyboard, NES controller and drive seven segment display, LEDs, speaker
- *Fall 2020:* Used MatLab and an Arduino Nano to control, monitor, and plot power supply current, voltage, and temperature