

Aleksi Hieta

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[Website Link](#)

EDUCATION

Oregon State University, Corvallis OR

Bachelor of Science, Electrical and Computer Engineering

Minor in Computer Science

June 2023

Santa Barbara City College, Santa Barbara CA

Associates of Arts, Engineering

August 2019

TECHNICAL SKILLS

Tools: Soldering Iron, Oscilloscope, Arc Welder

Software: C++, Python, MATLAB, Fusion 360, Rust, Arduino, Modelsim, LTSpice, Quartus

General: PCB Design, Schematic and Layout Troubleshooting, Data Structures, Object Oriented Programming, Computer Architecture/Assembly, AutoCAD

EXPERIENCE

Collins Aerospace Test Technician

Dec. 2022 - Jun. 2023

Troubleshooting and testing projectors for flight simulators. Identifying issues with software, firmware, PCB layouts, and optics. Ensuring products meet a high quality standard and communicating faults with managers.

Lam Research Test Technician

Aug. 2022 - Dec. 2022

Testing and finalizing Sabre tools for silicon wafer production. Communicating challenges and working beyond instructions to accurately test and evaluate products in a clean room environment.

PROJECTS

Spyder Cam - Junior Design

Sept. 2021 - Feb. 2022

MATLAB interface that moves a payload hanging between three pylons through motor controlled wires, moving the payload in a 3D space. Ran using G-code and additional menu options for size varying shapes.

High-precision Low-cost XYZ Motorized Stage - Capstone Project

Sept. 2022 - Jun. 2023

Designed modules for precise stepper motor movement for stage control down to 1 μ m. Design and implementation of PCB boards, power supply, motor controllers, and custom steering controls. GUI through Jupyter to control the stage, take images, and see live video feed of materials on stage (i.e. microchips).

Electric Skateboard - Special Project

Mar. 2023 - Jun. 2023

A BLDC driven skateboard with a Li-ion 36 V battery, belt driven wheels, fully custom electronic speed controller, and bluetooth handheld controls. Design of 3D printed enclosure and schematic prototyping for ESC.

RELEVANT COURSES

Digital Logic Design, Data Structures, Signals and Systems I & II, Computer Assembly, Electric Vehicles, Network Security, Transmission Lines, Power Electronics, Computer Architecture, Electromechanical Energy Conversion

EXTRA CURRICULAR

Oregon State Men's Volleyball Club Head Officer

Eagle Scout and National Youth Leadership Training

Automotive Mechanic

East Bay Volleyball Academy Coach