Kevin Ho

503-686-8341 | ho.kevin.007@gmail.com | linkedin.com/in/kevin-ho-a03b69204

Technical Skills

- Proficient in C and C++
- Able to code in object oriented programming
- Familiar in Visual Studio, Xcode, Bash, and GitHub
- Adept with Overleaf and Latex
- Able to solder and analyze circuits
- Familiar with an oscilloscope
- Proficient in Matlab and LTspice
- Capable with using a FPGA
- Familiar with PCB design and Altium
- Modeled electric vehicle motors and batteries in Matlab

Experience

Senior Project September 2021 – Current

Automation of Oscilloscope Testing *Corvallis, OR*

- Collaborated in a team to build a turned gantry system to interface with an oscilloscope's buttons and knobs for Tektronix.
- Modified GRBLHAL to better fit the required task to turn a knob, by controlling another stepper motor and a servo motor.
- Revised homing sequence of GRBLHAL to reduce the risk of damaging the oscilloscope with the toolhead during machine's run time.

Junior Project January 2021 – March 2021

Hyper Rail *Corvallis, OR*

- Created an interface with a team for a gantry system to monitor plants in a green house.
- Developed a user interface in python to control the gantry by sending G-Code to the motor controller.
- Gave real time updates of the gantry's exact location to the user, given in Cartesian coordinates.
- Implemented a virtual stop button to stop the machine in case of any emergencies that could damage motors or the environment.

OSU Robotics Club Rover Team January 2021 – Current

Electrical Team Member *Corvallis, OR*

- Worked in small teams to accomplish tasks to build a robot for the rover competition.
- Communicated with other teams across multiple fields to verify design chooses and possible functionality.

Education

Oregon State University Corvallis, OR

Bachelor of Science in Electrical and Computer Engineering, minor in Computer Science *Expected June 2022*

Courses Taken

Taken a variety of Computer Science and Electrical Fundamental classes

- ECE 438 Modeled and studied electric vehicles
- ECE 431 Power converters, DC-DC, AC-DC, and DC-AC
- ECE 474 Familiarized with system verilog and code coverage testing
- ECE 473 Made radio and alarm using an ATMEGA128
- ECE 472 Learned about the way a computer works
- ECE 391 Investigated transmission lines
- ECE 372 Introduced to the communication of computers
- ECE 351/352/353 Studied different types and random signals
- ECE 341/342 Junior group project of designing and building a control module for a HyperRail
- ECE 322/323 In depth circuit analysis with transistors
- ECE 271/272 Learned about logic systems and using a FPGA
- ECE 201/202/203 Circuit analysis of different voltage source
- ECE 111/112 Learned reading and calculations of circuits
- CS 344 Operating Systems, coded a secured shell
- CS 261 Linked lists, arrays and binary trees
- CS 161/162 Object oriented programming in C++