

Korban O'Brien

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EXPERIENCE

Oregon State University, Corvallis, Oregon — *Technical Assistant*

April 2019 - Present: Technical Assistant for ENGR 201 (Electrical Fundamentals) and ECE 111 (Introduction to ECE). Required to have a complete understanding of fundamental electrical engineering concepts and materials in order to lead recitations, labs, office hours, and grade quizzes/lab reports.

Psi Chapter of Alpha Sigma Phi, Corvallis, Oregon — *Treasurer*

January 2018 - January 2019: Responsible for the management and oversight of all financial matters of the Chapter as well as kept and maintained accurate accounting records.

Builders Electric, Eugene, Oregon — *Receptionist*

June 2015 - September 2019 (Summers): Responsible for answering phone calls and performing basic organizational tasks (i.e. manage truck logs, invoices, etc).

EDUCATION

Oregon State University, Corvallis, Oregon — *Electrical and Computer Engineering (major) and Computer Science (minor)*

September 2016 - June 2020: Senior at Oregon State University, studying to earn a degree in Electrical and Computer Engineering as well as a minor in Computer Science

PROJECTS

Obstacle Avoiding Swarm Robots — *Scalable, small format Computer Vision enabled Robots*

Lead Hardware designer for sensor and microcontroller boards

3D Printer — *Custom Prusa i3*

Designed and built a custom Large format Prusa i3 3D printer

Wireless AC Switch — *Junior Design Project*

Lead Hardware designer for a two channel wireless AC switch controlled by an easy to use app.

Astromech — *1:1 scale astromech droid*

Designed and built a 1:1 scale 3D printed, functioning star wars astromech.

SKILLS

PCB Design - Eagle
Proficient in C++
Technical Writing
System Verilog
Robotics
3D modeling - Fusion 360
Circuit analysis
LTspice
3D printing (design and troubleshooting)
Matlab
Soldering

ACCOMPLISHMENTS

Collegiate Drone Racing:
Competed in the National Collegiate Drone Racing Championship in the spring of 2018

Relevant Coursework

VLSI System Design
Digital Logic Design
Electronics I,II
Signals and Systems I,II,III
CMOS Integrated Circuits
Electronic Materials and Devices
Digital Signal Processing
Computer Organization and Assembly
Power Systems Analysis