OLIVER GOCH

Electrical Engineering | University of California, Los Angeles | June 2020 Cumulative GPA: 3.2 | Major GPA: 3.8 the.oliver.goch@gmail.com | (805) 298-6410

Work Experience

UCLA Extension | Los Angeles, CA IT Support Assistant (Present)

I am working with other members of the IT department to manage and set up the systems of UCLA Extension. We are using a new, open source software to maintain inventory.

I have written scripts in Bash and Python to assist in the sorting and ordering of the massive amounts of equipment.

Relevant Courses

- Data Structures
- Computer Architecture
- Circuit Theory
- Digital Design
- C/C++
- Linux/Unix
- Microsoft Suite

- Computer Logic
- Software Construction
- Algorithms and Complexity

- Principles of Operating Systems
- Systems and Signals

Skills

- Soldering
- Arduino
- Bash

- Python
- Analog Circuit Design
- Matlab

Personal Projects

Line Following Robot (2017)

- O This line following robot used an Arduino Nano which we programed in C
- O It has three IR sensors which it used to navigate.
- O It also had two DC motors which we controlled with NPN transistors

BruinNav (2017)

- O A navigational program that I programmed in C++
- O I used A* algorithm to find shortest route
- O I used various data structures in implementation ranging from Binary Search Trees to arrays

Bugs (2017)

- O A simulation/game that I programmed in C++
- O The simulation was of ant colonies competing with each other and enemy grasshoppers
- O I used polymorphism, encapsulation, and other techniques in building this project

Hangman Game (2016)

- o I developed this C++ game taking inspiration from a project in class
- o The game using text to play and interact
- O Users can interact with the keyboard to play the game

Leadership

Bruin Racing - Electric Vehicle Social Director (2017-Present)

- o I organize social events for the Bruin Racing and the Electric Vehicle teams
- o I am teaching new members basics of Electrical Engineering and organizing projects for them to complete

Bruin Racing – Power & Wiring (Present)

- o In addition to my regular duties, I am assisting the power & wiring team with construction of the car
- o In my work with them I have constructed circuits with relays, buck converters, sensors, and much more