JED YEO

Engineering Physics Student

@ jed324@gmail.com   🔗 https://jedyeo.com   in https://linkedin.com/in/jedyeo/   🐙 https://github.com/jedyeo

EXPERIENCE

Electrical & Controls Co-op

Dynamic Attractions

📅 May 2019 – Aug 2019   📍 Port Coquitlam, B.C.

- Development and programming of a ride system HMI for error and data tracking
- Utilized Excel and Autodesk Vault to organize documentation and records
- Conducted and monitored factory acceptance testing (FAT) of high voltage prototype ride systems
- Troubleshooting IP and network issues to establish data transfer and communication for multiple projects

PROJECTS & COURSEWORK

UBC Concrete Toboggan – Electrical Sub-Team

Multiple Projects   📅 September 2017 – Present

- **Color Organ Circuit** – Takes an audio input and outputs varying signals to LEDs to simulate an RGB equalizer, with the intention of accompanying the toboggan model at a showcase
- **Wireless Bluetooth Communication** - Helped implement Bluetooth communication between two Arduino modules in order to record important strain and stress data in the toboggan

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Semester Design Projects

Multiple Projects   📅 January 2019 - April 2019

- **AC Voltmeter & Oscilloscope** – In C, programmed an AC voltmeter to measure phasor amplitude and phase, and simulated the AC signal in a Python script, then stored data in an Excel file
- **Autonomous Robot** – In a team of 6, designed and built a fully autonomous coin collecting robot programmed in C. Enabled wireless Bluetooth communication to store and plot data in an Excel file using Python scripting.
- **Reflow Oven Controller** – Collaborated to program a reflow soldering oven controller. Programmed the FSM and LCD GUI, as well as the Python graphing module

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Portfolio Website

Personal Project   📅 January 2019

- Designed my own website to serve as an online portfolio
- Includes simple animations, links, personal project portfolio, and resumé
- Coded from the ground up using HTML, CSS, and Javascript

Interests & Hobbies

Snowboarding, Hockey, Chess, Video Games, Live Concerts, Technology, Making Friends, Learning New Things, Food

EDUCATION

BASc, Engineering Physics

University of British Columbia

📅 Sept 2017 – Present

- Expected Graduation – May 2023
- Available for **4 months** starting January 2020

SKILLS

Programming

Java | C | Assembly | Verilog | Arduino | MATLAB | Python | Makefiles

Electrical

Circuit Design & Analysis | Soldering | Digital Logic Design | Multimeter | Oscilloscope

Software

Git | Visual Studio | Quartus | ModelSim | Word | Excel | Powerpoint | Overleaf | HMI Programming

Soft Skills

Love of Learning | Extremely Organized | Technical & Persuasive Presentations | Communication | Detail Oriented

REFERENCES

References omitted for privacy reasons. Available upon request.