

# JED YEO

## Electrical Engineering Student

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## 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

### 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
- **ADC Temperature Sensor** – Converted voltages into readable temperatures from an ADC, and plotted results to a stripchart using a Python program interfacing with a serial port
- **Reflow Oven Controller** – In a team of 6, collaborated to program a reflow soldering oven controller. Programmed the FSM and LCD GUI, as well as the Python graphing module

### 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
- Gained experience with node.js and associated packages

## EXPERIENCE

### Warehouse Technician

**Johnstone's Barbecue & Parts**

📅 June 2017 – September 2017

📍 North Vancouver, B.C.

- Worked full time over the summer assembling and repairing barbecues
- Responsibilities included problem analysis, barbecue delivery, customer assistance, warehouse organization and inventory management
- Learned to be efficient in assembly of barbecues as well as delivery due to the high-paced working environment

### Interests & Hobbies

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

## EDUCATION

### BASc, Electrical Engineering

**University of British Columbia**

📅 Sept 2017 – Present

- Expected Graduation – May 2022
- 0 / 5 work terms completed, available for **4 months** starting May 2019

## SKILLS

### Programming

C Assembly Verilog Arduino  
MATLAB LaTeX HTML CSS  
Javascript Python Makefiles

### Electrical

Circuit Design & Analysis Soldering  
Digital Logic Design Multimeter  
Oscilloscope

### Software

Git Visual Studio Quartus  
ModelSim Word Excel  
Powerpoint Overleaf Windows  
Mac OS X

### Soft Skills

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

## REFERENCES

### Gerard Kho

✉ Senior Manager, BC Hydro

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### Serena Johnstone

✉ Manager & Owner, Johnstone's

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### Glenn Johnston

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