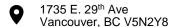
# Lisa Li

3<sup>rd</sup> Year Electrical Engineering





I.li@alumni.ubc.ca



(778)984-8481

#### **EDUCATION**



University of British Columbia
Bachelors of Applied Science – Electrical Engineering

September, 2015 - May 2020



# Udemy

Supplemental courses (Linux Shell Scripting, Intermediate C#)

# **WORK EXPERIENCE**

# Rokstad Power (Coquitlam, BC)

**Technical Estimation Intern** 

- October, 2016 August, 2017
- Aided senior estimators in bidding 10 major projects and several minor projects (sometimes workings on several at once) over the span of 10
  months and winning two multimillion-dollar projects
- Created Excel sheets with a graphical user interface (GUI) for distribution line quality control that increased the entire QA process by 75%

# Landyachtz Longboards (Vancouver, BC)

July, 2014 - September, 2015

# **Embedded Systems Intern**

- Conducted case studies on forged metal longboard components and analyzed data in MS Excel to create benchmarks for manufacturer quality that resulted in 30% increase in axle strength
- Replaced mechanical sensors with electronic sensors in test equipment that decreased total time to test by 50%

### **TECHNICAL PROJECTS**

## **Verilog Testbench Parser (Python)**

November, 2018

- Wrote a Python script to read and parse a SystemVerilog files to create a test bench skeleton for specified SystemVerilog file
- Used Regex to parse the SystemVerilog files
- · Increased efficiency and reduced minor but time-consuming bugs in resulting test benches

### Laser Light Show (Motor Control Systems/ Embedded Systems Project)

January, 2018-March, 2018

- Designed and Built from scratch a 2-DOF (degrees of freedom) spherical wrist that includes two mechanically commutated, permanent magnet DC actuators that could draw lines, ellipses and a ghost shape
- Researched, designed, 3D modelled, 3D printed and then refining the design (Housing, core, commutators, brushes...etc.) according to results
- Unique features included temperature controlled cooling fans for current drivers, custom housing for electronics and motor homing system.
- Worked with controls team to integrate parts for final presentation where we placed first in the class competition

# Heartrate monitor (Embedded Systems Project)

January, 2016

- Used the principles of photoplethysmography (PPG) to create a heart rate monitor
- Built an amplifier and high pass filter circuit to refine the signal before passing to the F38x microcontroller
- Used interrupts to process signals to find heart rate in beats per minute

### **TECHNICAL SKILLS**

### HOBBIES

# **Prototyping**

- 3D Printing
- Laser engraving/Laser cutting
- · Arc welding
- Basic hand tools
- Lathe
- Arduino IDE

### Computer

- C/C++/C#
- Python
- Bash
- Altium
- Visual Studio
- AutoCAD/SolidWorks

### **Electrical Equipment**

- Soldering iron
- Oscilloscope
- Signal generator
- Multimeter
- Breadboarding
- LabView



**Team Sports** 



**Youth Coaching** 



Skateboarding/ Longboarding