

Lisa Li

3rd Year Electrical Engineering



1735 E. 29th Ave
Vancouver, BC V5N2Y8



l.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)

October, 2016 – August, 2017

Technical Estimation Intern

- Aided senior estimators in bidding 10 major projects and several minor projects (sometimes working 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

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

HOBBIES



Team Sports



Youth Coaching



Skateboarding/
Longboarding

CO-OP

UBC Engineering
Co-operative
Education

604-822-3022

eng.coop@ubc.ca

pd.apsc@ubc.ca