

David Lim

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Technical Experience

Integral Group

May 2019 – September 2019

Mechanical Design Co-op

- Drew mechanical and electrical schematics in AutoCAD to internal specifications
- Measured water fixtures and capacities at YVR Airport to verify code compliance, culminating in a report written under rigorous YVR standards
- Investigated electrical loads and cooling capacities of rooms in Vancouver General Hospital to provide recommendations on potential upgrades for cost savings and damage prevention

Graph Tech Guitar Labs

May 2018 – December 2018

Research and Design Assistant

- Collaborated with representatives from Fender, Gibson and Yamaha to spec and design key guitar parts
 - Modelling, technical drawings, 3D printing prototypes, and manufacturing sample verification
- Designed and implemented new screening procedures for semi-autonomous production
- Sourced new parts and materials from local and international vendors

Education

University of British Columbia

September 2016 – May 2021

BASc in Mechanical Engineering (with Co-op Designation)

- 2020-2021 Capstone project under GTD Scientific Inc.: Improving the accuracy of forensic shooting reconstructions by developing a tool to perform more repeatable measurements of bullet trajectory

Technical Skills

Shop tools: Skilled at vertical milling, metal lathing, drill pressing, sheet metal fabrication, 3D printing and maintenance, waterjet cutting, and soldering.

Industry Software: Proficiency with SolidWorks, MATLAB, Python, MS Office, and the Adobe Creative Suite. Familiar with AutoCAD, ANSYS, and VBA.

Other Recent Experience

Starbucks - Barista

February 2020 – Present

- Demonstrated speed, precision, and memory by delivering consistent performance and quality customer service in the fast-paced environment of BC's highest-grossing Starbucks branch

Personal Projects & Interests

I have recently been learning web development – see my progress at <https://davidlim.ca> for an interactive landing page for this resume developed from scratch using HTML, CSS, JavaScript, and Processing.js.

I am an avid cyclist and bike mechanic - having overhauled every component of my bicycle myself, I have also provided maintenance and repair help to many friends. Other interests of mine include gaming, PC building, and luxury mechanical keyboard design and building. I also tinker with guitars, music technology, and music production.