

David Lim

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TECHNICAL EXPERIENCE

Integral Group

May 2019 – September 2019

Mechanical Design Co-op

- Designed 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 guitar parts for in-house mass manufacturing such as nuts, saddles, and tuners
 - Utilized 3D modelling & printing, prototyping, technical drawings, and verification of manufacturing samples
- Designed and implemented new procedures for semi-autonomous laser cutting and etching
- Worked with local and international vendors to source new parts and materials in early project stages

EDUCATION

University of British Columbia

September 2016 – May 2021

BASc in Mechanical Engineering (with Distinction & Co-op Designation)

- 2020-2021 Capstone project under GTD Scientific Inc.: Improving the accuracy of forensic shooting reconstructions by developing, 3D modelling, prototyping, and testing a novel tool to perform more repeatable measurements of bullet trajectory angles
- Mentorship and tutoring of younger Mechanical Engineers in core courses

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

Velo Star Cafe - Barista

May 2021 – Present

- Adapted quickly to the existing role by drawing from experience and utilizing external training material
- Spearheaded procedural changes: simplified tasks, added steps to ensure quality, and aligned team members to achieve greater consistency. Established a mindset of continuous improvement
- Contributed to formalization of procedure and consolidation of training material to accelerate the growth of the business

Starbucks - Barista

February 2020 – August 2021

- Demonstrated speed, precision, and memory by delivering consistent performance and quality customer service in the fast-paced environment of one of BC's highest-grossing Starbucks branches
- Frequently commended for strong connections and relations with customers and other staff

PERSONAL PROJECTS & INTERESTS

I am an avid cyclist and bike mechanic - having overhauled almost every component of my bicycle myself, I have also provided maintenance and repair help to friends. I've been spending this summer hiking and backpacking, and have recently been introduced to outdoor sport climbing.

Other interests of mine include coffee, music, and technology: PC building, mechanical keyboards, and front-end web development!