**EDUCATION**

**University of British Columbia** Vancouver, BC

**Bachelor of Applied Science** - *Mechanical Engineering (General)* July 2020 – April 2023

**Camosun College** Victoria, BC

**Advanced Diploma** - *Mechanical Engineering Bridge* September 2019 – April 2020

**Southern Alberta Institute of Technology (SAIT)** Calgary, Alberta

**Diploma** - *Mechanical Engineering Technology, Design and Analysis* September 2017 – April 2019

**SKILLS**

* 2D & 3D CAD programs such as SolidWorks, AutoCAD, and Fusion 360
* Proficient with SLA and FDM 3D printing, including the slicing software such as Ultimaker Cura
* Proficient in safe use of machine shop equipment and hand, air, and power tools
* Proficient in Microsoft Office Suite
* Experienced in MATLAB
* Effective interpersonal and communication skills
* Experienced in working in fast-paced, challenging settings
* Ability to analyze and find creative solutions for challenging issues
* Adaptable and works well independently and in a collaborative team environment
* High attention to detail, ability to multi-task, excellent time management, and organizational skills

**TECHNICAL PROJECTS**

**Braking Co-lead, Marketing Lead** Vancouver, BC

UBC Concrete Toboggan September 2021 – Present

* Helped designed the braking subsystem on the concrete toboggan.
* Conducted SOLIDWORKS simulations to ensure the system could withstand forces applied on the structure
* Utilized various means of manufacturing, including but not limited to machining, 3D printing and waterjet cutting.

**Vehicle Mechanics / 3D Printing Consultant** Vancouver, BC

UBC Supermileage Club September 2022 – Present

* Lead the procurement and maintenance of the club’s 3D printer, optimizing prints and maximizing printer uptime.
* Waterjet Cut and produced parts for the Hydrogen Fuel Cell Prototype. Participating in SEMA 2023 as part of the Vehicle Mechanics team.

**Competitor, Team Lead** Vancouver, BC

UBC Design League February 2022

* Completed a FDM 3D Printer CAD model that accurately reflects the real-life counterparts and the team’s design package that aims to improve the leveling mechanism, bed adhesion, motion system, and the extruder.
* Created a novel design idea which incorporated encoders in addition to existing bed leveling technology to ensure a flat print bed.
* Won **1st** place in the Technical Engineering Prompt at the 2022 UBC Designathon, a 36 hour CAD design marathon.

**Capstone Project, Waterslide Scaling Analysis** Vancouver, BC

The University of British Columbia September 2021 – April 2022

* Explored a low cost method of prototyping waterslides for our client, WhiteWater West.
* Preformed scaling analysis looking at fluid behavior and scaling proportions to determine if the method was accurate within the requirements of the client.
* Constructed a scale model of a certain slide with a closed loop water system that was determined to mimic the flow behavior close enough for the client’s needs.
* Calculated the required flow rate to overcome the surface tension effects of water, and determined required pump head and pump flowrate in order to mimic the real life version.

**Capstone Project, Refrigerated Beer Pong Table** Calgary, AB

Southern Alberta Institute of Technology September 2018 – December 2019

* Designed an improved beer pong table that would double as a refrigeration unit, allowing the beverages to stay cool
* Applied knowledge from SAIT courses to allow for proper selection of refrigeration units, refrigeration loops and insulation design to design the optimal table.

**WORK EXPERIENCE**

**Part-Time Remote Tutor** Vancouver, BC

PAPER June 2021 – Current

* Tutored students in Mathematics and Sciences over a web-based platform.
* Utilized different methods of teaching to suit student’s needs.

**Tea Barista** Vancouver, BC

Teadot UBC August 2022 – December 2022

* Prepared beverages and food products in a timely manner
* Took customer orders on POS system while providing excellent customer service.

**Backend Worker and Receptionist (Summer Position)** Vancouver, BC

Artee Screen-printing & Embroidery June 2021 – September 2022

* Ensured that orders are correct and prepared them for the screen-printing process
* Preform quality control to ensure that each shirt is up to standard.
* Worked with shipping and receiving to make sure the orders are delivered in a timely manner.
* Answered calls and inquiries for our printing business, as well as assisted customers who walked in.

**Receptionist** Calgary, Alberta

Standard Piano June 2018 – August 2020

* Answered phone calls and emails to book timeslots for tuning appointments.
* Organized office workspaces and ensured general cleanliness.
* Assisted with physical duties while moving and checking inventory.