□ (+250) 613-8053

Technical Skills

Software, Swift | Java | Python | C | Matlab | Git/Github | Software Structure | Digital Systems Electrical, Oscilloscope | Digital Multimeters | Function Generators | Protoboards | Soldering Mechanical Design, AutoCAD | 3D Printing | Laser Cutting | Heat Transfer | Error Analysis | CNC Design General, Microsoft Office | Creative Problem Solving | Attention to detail | Product Development Cycle

Education ____

University of British Columbia

BASC - ENGINEERING PHYSICS

 Graduated in April 2021. Enrolled in courses such as Mechanics of Heat Transfer, Electronic Circuits for Electromechanical Design, and Statistical Mechanics.

Work Experience __

Snow Spines Inc

JUNIOR DESIGN ENGINEER

- · Lead product development of an electronic assist to back country-skiing. Design was critical to validate start-up concept.
- Iterative product design integrated background knowledge in mechanical CAD and electronics. Spearheaded design of motor fixture, electronics enclosures, and cable assembles. Used CNC and 3D printing for rapid prototyping.
- Strong understanding of product life cycle. Iterated through concept design, rapid prototyping and designed testing procedures to ensure correctness. Remained agile through shifting requirements.

Slant / JABT Laboratories

CREATIVE SOFTWARE ENGINEER

- Worked as a team to develop an interactive display with information about the history of residential schools in Canada.
- Designed an intuitive interface for first time users that translated raw data into an easily digestible manner.
- Worked on coordinated and syncing up an array of Apple devices with a focus on minimizing communication latency.
- The end result was an interactive, cohesive map synchronized across 3 displays containing location-based historical information.

Project Experience _____

Engineering Physics 459 Capstone Project

REDETEC PLASTIC PELLETIZER

- The first of two capstone courses. Designed a grinder system that can reduce PET plastic water bottles into small flakes or pellets that can then be fed into an extruder to produce 3D print filament.
- · Throughout the project I gained teamwork and project management experience. The last 4 months had a large mechanical design focus, prototyping and testing different grinder solutions.

Engineering Physics 479 Capstone Project

D-WAVE MAGNETIC FIELD DEGAUSSER

- The second of two capstone courses. Designed a degaussing system capable of degaussing PCB's below 50pT. We designed the system over the fall of 2020 and constructed it over Spring.
- · Gained valuable project management from discussions with our sponsor D-Wave as well as professionals studying in the field. Communication played a large part in our understanding of this projects goals.

Engineering Physics 253 'Robots'

SUMMER ROBOTICS COURSE BASED ON MIT AND STANFORD COURSES

- Placed 3rd in an intensive 2 month course competition focusing on rapidly prototyping and designing an autonomous robot as a team of 4, capable of efficiently traversing through a specific obstacle course.
- I was the mechanical lead of the team, designing a functional chassis consisting of a complex set of treads able to traverse over gaps and uneven terrain.
- Rapid prototyping and testing consisted of 3D modelling software and equipment such as a laser cutter and 3D printers.

Lego Portrait Designer App

PERSONAL PROJECT

• In my spare time, designed a GUI in python that takes an uploaded image and creates a Lego version of it along with a set of PDF instructions. It was then built into a website, which can be viewed on my portfolio website linked above.

Vancouver, BC

Sept 2016 - April 2021

July. 2021 - Mar. 2022

Vancouver, BC

Jan. 2018 - Apr. 2018

Sept. 2019 - Apr. 2020

Sept. 2020 - Apr. 2021

June. 2018 - Aug. 2018

Fall 2021

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eremy Voldeng

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