THE UNIVERSITY OF BRITISH COLUMBIA

Engineering Co-op Program   Phone (604) 822-3022
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Jasper Chan

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Technical Skills

Electrical Equipment

- Oscilloscope
- Signal Generator
- Multimeter
- Soldering Iron
- Perfboard/breadboard

Programming Languages

- C/C++
- Python
- JavaScript/Node.js
- Java
- MATLAB
- Qt/QML
- C#

Software

- SOLIDWORKS
- Inventor
- EAGLE
- Git
- Linux (multiple distros)
- Vim

Academic & Co-op Status

Academic Program:
- Mechanical Engineering; 3 of 8 academic terms completed;
- Anticipated date of graduation: May, 2020

Co-op Status
- Completed 0/5 Work terms; available for 4 or 8 beginning January, 2018

Technical Projects

Custom 3D Printer   December 2016 – Present
- Lead a team of 5 in building an i3 based 3D printer
- Added a servo actuated pen to the printhead, allowing for multicolor prints without swapping filaments
- Wrote a GCode postprocessor to allow specific areas of a print to be colored

SSC Checker Bot   May 2018
- Built a Telegram bot using Python that checks for grades on UBC's Student Service Checker and notifies users when new grades come out
- Grades are stored in a database using SQLAlchemy to allow for database agnostic operation

ASDS 2.x Sea-based Landing Pad Scale Prototype   January 2018
- Working with a group of 6 other students, worked through a formal engineering design process to build a boat capable of balancing and transporting model rockets
- Implemented a battery monitoring system to limit throttle based on power output, improving stability by preventing motor brownouts that would cause the boat to rock
- Wrote a class to remap controller inputs to a more intuitive control scheme allowing for greater control.

BM Bot   January 2018
- Working with a group of 3 other friends, built a Discord bot using Node.js that would track user's League of Legends games
- Used the Riot Games API to detect when a user finished their game, and then would send messages to the user poking fun at them based on their performance

Student Teams

UBC Rapid
October 2016 – Present
- Team specializing in advancing rapid prototyping technologies, especially 3D printing
- Currently running cheapest 3D printing service on campus

Other Work Experience

Hamilton Kumon (Richmond, BC)
September, 2015 – February, 2016
Tutor/Marker
- Created a personal system to mark students' worksheets in an efficient manner
- Taught children mathematics and English at various levels in a friendly way that encouraged self-growth

Volunteer Work Experience

Richmond 19th
September, 2012 – Present
Scout Leader
- Plan and run engaging programs every week for youth aged 8-10
- Teach survival and life skills at camping trips, fostering an appreciation for the outdoors

Education

The University of British Columbia
Expected May 2021
Bachelor of Applied Science – Mechanical Engineering

Activities and Intrests

- Billiards – summer leagues
- Sports – Ultimate Frisbee, snowboarding