



# Jasper Chan

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## Technical Skills

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### Electrical Equipment

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

### Programming Languages

- C
- Python
- JavaScript
- Java
- MATLAB
- Qt/QML
- C#

### Software

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

## Academic & Co-op Status

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### 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

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### Custom 3D Printer

December 2016 – Present

- Lead a team of 5 in building an i3 based 3D printer
- Designed custom mounting solutions to enable compatibility with readily available parts
- Added a servo actuated pen to the printhead, allowing for multicolor prints without swapping filaments

### 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 mobile floating platform capable of balancing and transporting model rockets
- Implemented a battery monitoring system that would limit throttle based on available power output, improving stability by preventing motor brownouts that would cause the boat to rock
- Remapped controller inputs to a more intuitive control scheme, allowing for effective piloting without practice

### Offline Transit App

June 2017 – Present

- Wrote a Python script to scrape the Translink API for every bus stop and corresponding routes into an SQLite database
- Built an Android app using the database that shows the user nearby bus stops with buttons to query individual bus times

### Automated Quoting Service Prototype

October 2017 – Present

- Wrote a Python program that would automatically generate price quotes whenever a user submitted a job to UBC Rapid's printing service, reducing quote times from up to 48 hours down to 10 minutes
- Leveraged multiple Google APIs to access Google Forms data

## Student Teams

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### 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

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### 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

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### Richmond 19<sup>th</sup>

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

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### The University of British Columbia

Expected May 2021

#### Bachelor of Applied Science – Mechanical Engineering

## Activities and Intrests

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