# Joren Jackson

Underlined text is hyperlinked. See jorenj.com for project portfolio and online resume.

# Education

#### University of British Columbia

BASc Integrated Engineering, Cum Avg 82%, Est GPA 3.62 Focus on Mechanical and Materials Engineering, Minor in Commerce

# **Previous Employment**

### **Snap-On Equipment**

Engineering Intern

- Worked in test and manufacturing environment on mechanical and software QA tasks.
- Conducted accuracy audits on production aligners. Developed result tracking script in python.
- Designed 2 discrete components for production with new aligner product.

#### **Regional Gliding School - Pacific**

Glider Instructor Check Pilot

- Taught 5 students how to fly gliders, including groundschool and flight training.
- Responsible for maintaining flying standards of cadet pilots and adult instructor staff across region.

# **Technical Projects**

#### **UBC Rocket:** Team Co-Captain & Co-Founder

- Founded and currently lead <u>UBC Rocket</u>, a student design team dedicated to suborbital sounding rockets.
- In 1st year, grew team to 70 members and won our category at the 2018 Spaceport America Cup.
- Oversaw team direction, budget, and timelines. Managed leadership, coordinated recruitment and funding.
- Developed and implemented vacuum infusion process for carbon fiber body tubes and fiberglass nosecone.
- Coordinated and took part in design reviews of all major subsystems and rocket integration.
- Conducted verification testing for recovery systems, including electronics and parachute sizing & reliability.

#### Mechanical Engineering Capstone Project

- Part of team developing end of arm tooling for the German Aerospace Agency (DLR) to allow partial automation of the pleating process used in large-scale vacuum infusion composite manufacturing processes.
- Using SolidWorks, lathe, and mill, designed & built the actuation system forming core of prototype.
- Successfully demonstrated prototype to DLR representatives.

## Technical and Personal skills

Equipment / MFG: Mill & lathe, 3D printers, waterjet cutters, composite vacuum infusion, SPC. Software: SolidWorks, ANSYS Fluent and PrepPost, Siemens NX (Beginner), MS Office. Programming: Python, C, Matlab, Simulink.

## Interests and Hobbies

Skiing, Hiking, Sailing, Flying, Ice Hockey, Being outside and exploring neat places.

Vancouver, BC 2013-2018

Conway, AR May 2016-August 2016

Summer 2016 - Present

#### Sept 2016 - April 2017

#### Comox, BC 2013-Present