

Joren Jackson

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

Education

University of British Columbia

Vancouver, BC

BASc Integrated Engineering, Cum Avg 82%, Est GPA 3.62

2013–2018

Focus on Mechanical and Materials Engineering, Minor in Commerce

Previous Employment

Snap-On Equipment

Conway, AR

Engineering Intern

May 2016–August 2016

- 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

Comox, BC

Glider Instructor Check Pilot

2013–Present

- 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

Summer 2016 - Present

- Founded and currently lead UBC Rocket, 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

Sept 2016 - April 2017

- 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.