



EXPERIENCE

CONTROL | DATA SCIENCE CO-OP

JANUARY 2018 – APRIL 2018

- Optimized SQL queries to increase execution speed by 283%
- Wrote and Re-factored code in Javascript for the website's API

THE UBYSSEY | JUNIOR SOFTWARE DEVELOPER

MAY 2017 – AUGUST 2017

- Worked on Dispatch (Django / React backend platform of ubyssey.ca)
- Created components that allow news content to be changed quickly and with ease

PROJECTS

ROBOT COMPETITION | ENGINEERING PHYSICS

MAY 2018 – AUGUST 2018

- Designed and built a robot to autonomously retrieve yarn Ewoks
- Developed electronics, IR detection system, and wrote software for the embedded control system. See Github for website and further information

GENETIC PRISONERS DILEMMA | PERSONAL PROJECT - SEE GITHUB

AUG 2018 – SEPTEMBER 2018

- Wrote a Java program to play iterated Prisoner's Dilemma Games.
- By giving populations different amounts of information on their games, they evolved to the known optimum strategies for the information given

VOLUNTEER EXPERIENCE

ENGINEERING PHYSICS MENTOR | THE UBYSSEY

JANUARY 2017 – PRESENT

- Mentor of five 2nd year Engineering Physics Students
- Responsible for general guidance and activities for mentor group

SQUADRON COMMANDER | 103 THUNDERBIRD SQUADRON

APRIL 2015 – JULY 2016

- Led the Command Team, a group responsible for 20 senior and 60 junior cadets in the Squadron
- Mentored senior cadets in leadership and organizational skills

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

EXPECTED MAY 2021

- Bachelor of Applied Science, Engineering Physics | Minor in Mathematics
- Dean's Honour List

ABOUT ME

PROGRAMMING LANGUAGES

Over 10000 lines:

Python • Java

Over 5000 lines:

JavaScript • C

Over 1000 lines:

HTML • CSS/SCSS

Familiar:

MySQL

SUMMARY

I am an enthusiastic engineering student, with passion in mathematics, programming, and physics. I spend my free time working on my personal projects, climbing, biking, or skiing.

Further Information

github.com/Axel-Jacobsen | [linkedin/in/Axel-Jacobsen](https://www.linkedin.com/in/Axel-Jacobsen)
axelnjacoben@gmail.com | 778.789.4810