

AMBER DONNELLY

ENGINEERING PHYSICS GRADUATE

SKILLS

Software

Python, C++, Java, JavaScript, MySQL, Arduino/C, Matlab, Docker, Bash, Git

Electrical

Soldering, Multisim, FPGA Programming, VHDL, Circuit Analysis

Mechanical

SolidWorks, OnShape, Machine Shop, Laser Cutter, Water Jet Cutter

EXTRA-CURRICULARS

UBC Gears & Queers

2019 - 2020

- Treasurer

AOE Professional Engineering Sorority

2015 - 2020

- Co Fundraising and Philanthropy
- Alumnae Outreach
- Secretary
- Co Webmaster

Godiva Engineering Marching Band

2015 - 2018

- Trumpet player

SELECTED PROJECT

Autonomous Robot

ENPH 253 | May - Jun 2017

Designed from scratch, manufactured, and programmed an autonomous robot with 3 other students for the ENPH 253 "Robot Competition". (OnShape, Laser Cutting, Circuit Design, Arduino/C) Learn more at the project website: <https://channel4robotteam.github.io/>

INTERESTS

- Solo international travel
- Public speaking
- Film and storytelling
- Social and environmental activism

PROFESSIONAL EXPERIENCE

Survey Monkey

Software Engineer Intern | Vancouver, BC | May 2019 - Aug 2019

- Independently building a new service to handle user authentication and management (Python, Pyramid, MySQL, Ansible)

UBC Department of Physics and Astronomy

PHYS 158 Teaching Assistant | Vancouver, BC | Jan - May 2019

- Instructed a weekly tutorial on electricity, magnetism, and optics topics

Elastic Path Software

Java Developer Intern | Vancouver, BC | May - Dec 2018

- Headed the design, implementation, and deployment of an internal service (AWS, MySQL, Python, Flask, and Docker)
- Extended the core product (Java)
- Researched and developed new CI/CD and CloudOps infrastructure (Bash, Kubernetes, AWS, Azure)

Linespect

Application Developer Intern | Richmond, BC | Jan - May 2017

- Worked independently on improving the user interface (C++, QML)
- Supervised and controlled UAV test flights

VOLUNTEER EXPERIENCE

UBC Engineering Undergraduate Society

Engineering Competition Director | May - Oct 2018

- Recruited and managed student chairs and industry judges for 8 events
- Created and tracked the competition budget
- Supervised the work of the Logistics and Sponsorship managers

Engineering Competition Logistics Manager | May - Oct 2017

- Supervised a team of 11 student volunteers and 17 industry judges
- Developed the competition schedule and tracked inventory
- Co-chaired the Senior Design event

Royal Canadian Air Cadets

Familiarization Pilot | Sep 2014 - Jun 2015

- Piloted familiarization flights in Schweizer 2-33A gliders (air tow)
- Kept time sheets and assisted in launching gliders
- Taught ground school lessons on aviation and meteorology topics

EDUCATION

University of British Columbia

BASc in Engineering Physics | Vancouver, BC | 2015 - 2020

- BMO Financial Group National Scholarship Recipient
- EUS Emblem Award Recipient

Vincent Massey High School

Diploma | Brandon, MB | Class of 2015

- 98% cumulative average
- 8 AP Credits