

Amber Donnelly

Developer, Engineering Physics Student

email: amberwdonnelly@gmail.com
phone: 204 721 1309
site: amberdonnelly.github.io

Technical Skills

Software	Java, Arduino/C, C++, QML, CSS, Matlab, LaTeX, Git
Electrical	Soldering, circuit analysis, oscilloscopes, function generators, multimeters
Mechanical	CAD with SolidWorks/OnShape, machine shop, laser cutter, water jet cutter

Professional Experience

LineSpect
Application Developer
Vancouver, BC
Jan 2017 - May 2017

- Improved LineSpector user interface using QML and C++
- Supervised and controlled flights of the UAV during tests
- Developed training and promotional materials for clients

Volunteer Experience

UBC Engineering Undergraduate Society
Engineering Competition
Logistics Manager

- Logistics planning (i.e. scheduling and room bookings)
- Volunteer recruitment and management
- Recruitment of industry and alumni judges

Royal Canadian Air Cadets
Familiarization Pilot

- Piloted familiarization flights for cadets and staff in Schweizer 2-33A gliders (air tow)
- Taught ground school and gave safety briefings

Projects

Website 2017 Personal CV website, built using bootstrap, HTML, CSS, and JavaScript. Hosted on GitHub at amberdonnelly.github.io.

Robot 2017 In 6 weeks, designed from scratch (CAD, circuit design), manufactured (circuit construction, laser/water jet cutting, machine shop), and programmed (Arduino/C, Git) an autonomous robot with three other engineering physics students for the ENPH 253 "robot competition". See more at our website: channel4robotteam.github.io (HTML, CSS).

AI World 2016 Programmed (Java, Git) classes for a handful of artificially intelligent characters to populate a small, tile-based world.

Education

University of British Columbia	BASc in Engineering Physics
<i>Vancouver, BC</i>	Major Entrance Scholarship Recipient
2015 - present	80% cumulative average