

# **Amber Donnelly**

3rd Year Engineering Physics Student (Software Engineering Focus)

# **SKILLS**

- Programming experience:
  C (and Arduino), C++, Java, Matlab, HTML, CSS, JavaScript, C# (learning)
- Glider Pilot License and Private Pilot License
- French (beginner speaking/intermediate reading)

# **PROJECTS**

- Personal CV Website (2017) (https://amberdonnelly.github.io)
  - o HTML, CSS, and JavaScript
- Autonomous Robot for ENPH 253 (Introduction to Instrument Design) Competition (2017)
  - o In a team of 4, designed, manufactured, and programmed an autonomous robot to complete the specified challenge and compete against other robots
  - Was the primary developer of the team's final project website: https://channel4robotteam.github.io/
- APSC 101 Arduino Claw (2016)
  - Was part of a team of 6 which designed, built, and programmed a robotic claw that could open and close automatically to pick up objects
- Programming Projects
  - Created a craps game in C using Visual Studio
  - Used Visual Studio to write a DAQ program in C to write sensor information to a 7-segment display
- AASC (Advanced Aerospace Summer Course) Spacecraft Design Project (2013)
  - Project was to design a reusable spacecraft to collect and recycle space debris
  - o Leader of the 4 person sub-team for 'Launch, Recovery, and Reuse' in larger team of 20
  - Won the AASC Top Project award for 2013

### **WORK EXPERIENCE**

Linespect, Richmond, BC - Application Developer (Co-op) - Jan 2017 - May 2017

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

#### **UBC Access and Diversity, Vancouver, BC** - Notetaker - 2015

- Was responsible to attend every class to take notes
- Scanned and emailed notes to multiple clients within 48 hours of class
- Answered clarification questions from clients

# Safeway, Brandon, MB - Cashier - 2015

- Scanned and bagged groceries and memorized PLU codes for produce and baked goods
- Cleaned, organized, and stocked the area around my own workspace
- Responded to customer inquiries and complaints

# Royal Canadian Air Cadets, Brandon, MB - Volunteer Familiarization Pilot - 2014 - 2015

- Piloted familiarization flights for cadets and staff in Schweizer 2-33A gliders (air tow)
- Taught ground school
- Gave safety briefings
- Recorded timesheets and assisted with launching gliders

# Amber Donnelly

# INVOLVEMENT

#### Volunteer

- UBC Engineering Competition Logistics Manager (present)
  - Currently coordinating the planning and organization of the annual competition, including, but not limited to, logistics planning, volunteer management, and recruitment of external judges
- Canadian Space Summit (2015)
  - Worked the admissions desk
- Senior Cadet at 82 Brandon RCACS (2014-2015)
  - Greatest Contribution to Aviation Award (2015)
  - CO's Honor Roll (2013)
  - Attended summer courses: General Training (2011), Basic Survival (2012), Advanced Aerospace (2013), Glider Pilot Scholarship (2014), Power Pilot Scholarship (2015)
- Peer Tutor at Vincent Massey High School (2012 2015)
  - o Helped students with both humanities and math and sciences courses on a drop-in basis
- Brandon Jazz Festival (2011 2015)
  - o Tasks included working the admissions desk, picking up litter, catering, and guiding groups
- Rotary Club of Brandon Annual Book Sale (2010 2015)

# **Current Extra-Curricular Activities**

- Trumpet player in Godiva Engineering Marching Band and Community Orchestra
- Gears and Queers (UBC Engineering LGBT+ organization)
- AOE Engineering Sorority

# **EDUCATION**

# University of British Columbia, Vancouver, BC - Bachelor of Applied Science

September 2015 - May 2020

- Engineering Physics major
- Major Entrance Scholarship recipient and Chancellor's Scholar
- 80% average and Dean's Honor List in first year

### Vincent Massey High School, Brandon, MB - Diploma

September 2011 - June 2015

- 8 AP credits
- 98% average

### **AWARDS**

- RCAC Hubbell Award (2015)
- Varsity Girls Rugby MVP (2015)
- RCAC Power Pilot Scholarship (2015)
  - Top Manitoba Cadet PPS NW Region (2015)
- RCAC Glider Pilot Scholarship (2014)
- Dr. Peter Letkeman Scholarship for High Achievement in Chemistry (2014)
- Gene Researcher for a Week (2014)

### **INTERESTS**

- Playing and creating video games
- Movies, television, and film-making
- Reading and creative writing
- History