ROWAN FERRABEE

Local Address: 2A Mechatronics Engineering Student   Home Address:

250 Keats Way, Unit 6   1 (613) 715-4438   379 Berkley Ave.

Waterloo, ON, N2L 6J5   rowan.ferrabee@gmail.com   Ottawa, ON, K2A 2G9

Summary:
- Over 5 years of experience programming in a wide variety of languages such as C/C++, Arduino, and more
- Quick and eager to learn and apply new skills; enjoys a challenge
- Resourceful, autodidactic, self-motivated, friendly, and helpful.
- Energetic, sensible, and engaged; exercised by substantial volunteer efforts.

Employment Experience:

Firmware Development Student - BlackBerry Ltd.   Winter 2015 - Spring 2015, Fall 2015 - Present

Contributed code to the operating system of BlackBerry's first Android-based mobile device, the BlackBerry Priv, from January 2015 until final product release. Worked specifically in the Linux kernel in the areas of bringup, sensors, and display. Spent time implementing new features, fixing known bugs, and occasionally creating Android apps for internal use.

Mathematics Tutor   Fall 2009 - Winter 2015

In-home tutoring in the Ontario grade 8 - 12 curriculums as well as aid with first-year university mathematics.

Busser, Keg Steakhouse and Grill   Spring 2012 – Fall 2012

Clearing, cleaning, and setting tables for customers; transporting and cleaning dishes and cutlery; and closing the restaurant at the end of the night.

Programming Experience:

C++

Studied C++ for 3 years at Nepean High School and used those skills to place 11th in Ontario in the 2014 Educational Computing Organization of Ontario (ECOO) team coding competition.

Embedded Systems

Self taught in the Arduino Programming Language and have used Arduino to code embedded systems such as Ultrasonic Room Mapping devices, Automatic Window Blinds, and more.

Web Development

Running websites through Nginx and Node.js on Ubuntu servers using various tools such as Twilio and Postgres. Developed a crowdsourced music management web application which can currently be found at sms-dj.herokuapps.com.

Other

Competent in Unix-based development environments, with extensive experience in embedded software and firmware development. Adept in both frontend and backend web development, and have developed multiple mobile applications using various frameworks. Currently studying functional programming languages and their applications to machine learning.

Education and Extra-curricular Involvement:

Candidate for B.A.S., Mechatronics Engineering, University of Waterloo　　　　Fall 2014 - Present
Currently being trained in mechanical design, CAD, circuits, material science, statics, embedded systems, and computer programming with an average of 96%. Heavy emphasis on project-based work in small groups.

Co-Founder and President, UW BioMechatronics Club　　　　Summer 2015 - Present
At under a year old, the University of Waterloo Biomechatronics Club now contains over 60 members and supports multiple design projects in fields such as prosthetics and human exoskeletons.

OCDSB Graduate, Nepean High School　　　　Fall 2010 - Spring 2014
Silver Medalist, achieving a grade 12 top six average of 95%. Co-founded the Competition Mathematics Club, represented the class of 2014 on the Student's Council, and headed the Reach for the Top team.

Part-Time Student, Carleton University　　　　Fall 2012 - Spring 2013
Attended evening classes at Carleton University throughout grade 11, completing first year Linear Algebra with a final grade of 99% and second year Multivariable Calculus with a final grade of 100%.

Lead Actor, Musical Stage Production　　　　Fall 2013 - Spring 2014
Performed the role of Enjolras in Nepean High School's production of Les Miserables.

Drum and Dance Performer, Baobob Youth Performers　　　　Spring 2012 - Spring 2014
Ghanaian musical and cultural exchange. Included 3 week study and performing tour in Ghana, West Africa.

Volunteerism:

Community Volunteer　　　　Fall 2010 - Summer 2014
Earned a total of 229 community volunteer hours throughout high school through various volunteer pursuits such as sorting food at the Ottawa Food Bank; organizing and hosting events for younger students at Nepean High School; assisting camp counselors at St. Brigid's Summer Camp.

Awards:

Carmen E. Pollock Math Award, Nepean High School
Awarded to a graduate who has shown distinction in Mathematics beyond the high school curriculum.

OCDSB Silver Medals, OCDSB
Recipient of the 2012, 2013, and 2014 Silver medal for achieving a high school average of >90%.

Various Awards, Center for Education in Mathematics and Computing, University of Waterloo
School champion in the 2011 Pascal, 2012 Cayley, 2014 Open, and 2014 Senior Mathematics Contests.

Interests:

Leadership and Community
Engaged in community leadership throughout high school and into university by taking a leading role in activities such as Student's Council, LINK Crew, OCDSB Leadership Camp, and peer tutoring.

Music
Started playing the button accordion at age 6 and from there discovered a love of learning new instruments which has led me to proficiency on the piano, harmonica, trumpet, bass guitar, West African drums, ukulele, and acoustic guitar.