Elizabeth Morrow

2B Mechatronics Engineering

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Software Skill Summary

Languages:	C#, C++, C, Java, HTML/CSS
OS:	Windows, Linux
IDEs:	Visual Studio, Eclipse, CodeComposer, Android Studio

Technical Skills

Software Development
- Embedded Systems
- Applications
- Language Support & Tooling

Design and 3D Modeling
- Interface Design (Photoshop, Balsamiq)
- Mechanical Design (Solidworks)
- Electrical Layout (Altium, AutoCAD)

Process Automation
- Powershell Scripting

Interests

Bilingual	-	French
Traveling	-	Last seen in Rio
Hockey	-	Team captain
Musicals	-	Triple threat

Projects
Solar Race Car Team Electrical Lead
- Firmware development, CAN network specialist, diagnostic applications development (C#, Python), team manager.

Professional Experience

Explorer Intern   May 2015 – Aug. 2015
Microsoft Corporation

- Owned end to end Visual Studio debugging experience for the Lua scripting language, including writing functional and technical specs and holding peer reviews.
- Implemented Lua debugger (C#, C++) capable of debugging scripts running in large host applications.
- Implemented hand ruled lexer for the Lua language service

Control Systems Design   Aug. 2014 – Dec. 2014
MedAvail Technologies Inc.

- Lead designer and developer of handset testing application in C#. Used Fast Fourier Transforms to analyze signal quality, saving company $15,000.
- Reworked machine log converter application(C#), implemented hashing and multithreading resulting in a 300% improvement in execution speed.
- Integrated log converter into utility software, translating machine logging events in real time.

Software Co-op   Jan. 2014 – Apr. 2014
Midnight Sun Solar

- Developed CAN message parser using C# and SQL database for solar car diagnostics.
- Wrote firmware for lights control board (C).
- Lead design and CAD of electrical system test harness (SolidWorks).

Education

Candidate for Bachelor of Applied Science   2013 - present
Honours Mechatronics Engineering
University of Waterloo

Volunteer Work
Student Design Teams Director
- Liaison between design teams and university administration, in charge of organizing, scheduling and running events and demos

University of British Columbia Research Assistant
- Extracted and analyzed DNA from blood samples