

SKILLS SUMMARY

- 2+ years' professional experience with several popular languages including C#, C/C++, SQL, HTML/CSS, JavaScript, and Java
- Strong interest in developing efficient, scalable software
- Experience with several development tools including Visual Studio, Eclipse, Atom, and the shell
- Thoroughly enjoy learning new technologies and create cool, useful, and fun projects

WORK EXPERIENCE

Software Developer, BMO Canada

September 2016 – December 2016

- Developed internal applications in Java to automate several deployment processes and halved overall project deployment time.
- Wrote automation scripts that run at project deployment to error check build outputs from large java applications for errors to prevent catastrophic multibillion dollar mistakes.
- Optimized a Java program used to automatically download and extract EAR files and reduced the program's runtime by over 100 times through multithreading.

Technologies: Java, BASH, Batch Script, Eclipse

Software Consultant, BDO Solutions

January 2016 – April 2016

- Took ownership of a large-scale project for the Dairy Farmers of Ontario project that was 2 years overdue and brought it to completion while maintaining complete client satisfaction and a high-quality standard
- Implemented SQL stored procedures to perform repetitive, data intensive tasks such as producing monthly billing statements which reduced the run time of certain tasks by over 50%

Technologies: C#, SQL Server, Transact-SQL, JavaScript, jQuery, JSON, HTML/CSS

Software Developer, VerifEye Technologies

September 2014 – December 2014

- Developed a serial communication API in C for a Linux based embedded device to interface with VerifEye's G6 camera system
- Performed stress tests by using BASH scripts on a Raspberry Pi to mock an actual vehicle sending data to the camera system, and recording irregularities in responses from the camera system using another BASH script.
- Developed a desktop application in C# to automate the initial factory setup and test of new camera units while learning the C# language and adhering to a short timeframe. Maintained a high code quality by developing unit tests and following test driven development paradigms

Technologies: C#, C, Shell Scripting, WPF, XAML

PROJECTS

MP3 Player

- Designed a circuit for an MP3 player targeted for Altera DE2 development board using Altera Quartus
- Programmed the MP3 player using C to play music and perform several different functions using Altera NIOS 2 IDE

RTOS Snakes

- Classic game of snakes was developed in C for a microcontroller running an ARM Cortex M-3 processor
- Strong knowledge of data structures was used to build, move, and control a snake based on user inputs

Line Following Robot

- Designed and built a light detector circuit as well as a magnetic field sensor to enable the robot to follow the line and detect obstacles and react accordingly
- Programmed robot in C to adjust course based on input from difference amplifier to follow the line

Smart Vendor

- Using various sensors, built and programmed a vending machine to allow users to select an item, accept currency based on the item selected, and vend the selected item to the customer user

Obstacle Avoiding Robot

- Designed and Built an obstacle avoiding robot using various sensors and actuators and an Arduino Uno microcontroller.
- Programmed the robot to travel around tight spaces and avoiding obstacles in its path using C.

EDUCATION

Bachelor of Applied Science in Mechatronics Engineering, University of Waterloo

Expected graduation: May 2018