Ryan Peterson

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Technical Skills

- **Programming Languages:** C, C++, Java, MATLAB, x86-64 Assembly
- **Operating Systems:** Windows, Ubuntu, Linux Mint, Android
- **Software:** Visual Studio, Eclipse, Android Studio, Subversion, Git, VirtualBox, Microsoft Office, Adobe Fireworks
- Experience in software design, testing, and debugging

Transferrable Skills

- Exquisite communication and social skills
- Experience in busy and highly stressful situations
- Ability to cooperate with people in a team environment
- Follows instructions accurately to ensure tasks are finished precisely and on time

Self-Directed Projects

Word Generator Dec 2016

- Exercised object-oriented programming by using classes and functions in C++ to organize separate tasks and instructions required for the operation of the program
- Created a program that generates a new pronounceable word of desired length after utilizing a given library of words to determine what an acceptable word is

PCB Etching Aug 2016

- Used research skills to determine the best process for creating a PCB board
- Applied skills learned in class and through research to make the physical board
- Designed and implemented a circuit for use on the PCB board

Further Technical Projects

Calculot Math Learning App March 2017

Introduction to Software Engineering, SFU

- Used Java with Android Studio to contribute to the development of an Android application that teaches users about math topics and helps them study with games
- Primarily worked on creating the UI and allowing the UI to flow nicely and work smoothly with the backend of the project
- Worked as part of a group of four following the scrum methodology

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Further Technical Projects - Continued

Dynamically Changing Speed Limit Sign Sep - Dec 2015

Engineering Technology and Society, SFU

- Programmed an Arduino board in a variant of C++ to read each individual sensor as input, and output the resolved speed to a seven-segment display
- Worked with a group of seven to create a prototype for a speed sign that changes depending on road conditions by sensing the conditions around it

Bottle Sorting Robot Implementation Nov 2015

Introduction to Computing Science and Programming, SFU

- Created an implementation for a robot using programming skills in C++ to sort a stream of various bottles in a virtual recycling depot
- Read information from an input file and used programming logic to output a file describing an appropriate course of action for the robot

Competitions

Western Engineering Competition Jan 2016

University of British Columbia Okanagan, Kelowna BC

- Competed against twelve other Western Canadian universities with a team of four after qualifying to represent SFU at the competition
- Designed and created a prototype for an emergency signaling device using rudimentary materials and supplies

Other Work Experience

Photo / Electronics Specialist Aug 2015 – Present

London Drugs, Langley, BC

- Serviced customers using great communication skills and product knowledge to ensure their satisfaction
- Followed requests from superiors using merchandising skills to create what is desired

Customer Service Specialist / Stock Service Sep 2013 – Aug 2015

London Drugs, Langley, BC

- Used customer service skills and store knowledge to help guests with any requests presented to me to the best of my abilities
- Completed a list of regular tasks and duties in a timely manner

Education

Simon Fraser University Sep 2015 – Present

- Bachelor of Applied Science – Major in Computing Science