UBC a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

Engineering Co-op Program   Phone 604 822 3022
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Steven Hall
Computer Engineering

TECHNICAL SKILLS

Programming

- C/ C++
- C#
- Objective C (iOS Apps)
- VHDL Circuit Synthesis
- Java
- Assembly (68k and 8052)
- Python
- HTML/ CSS/ jQuery/ JavaScript
- Google Script

Computers and Programs

- Microsoft Office/ Libre Office
- Computer Repair
- Microsoft Windows
- Mac OS X
- Linux (Ubuntu, Elementary OS)
- Version Control (Git, Subversion, Mercurial)

Electronics

- Microcontrollers
- Oscilloscopes
- Signal Generators
- Multimeters
- Breadboard
- Soldering

ACADEMIC & CO-OP STATUS

Academic Program
- 4 of 8 academic terms completed
- Anticipated date of graduation: May, 2016

Co-op Status
- Completed 0/5 work terms; available for 4, 8, or 12 months beginning January, 2015

TECHNICAL PROJECTS

Electromagnetically Tethered Robot   **April 2014**
- Constructed a robot using one sold piece of aluminum resulting in usable parts that we used for the remote and robot.
- Designed, built, and programmed an autonomous robot that follows an electromagnetic signal produced by a solenoid on a remote that our group also built, resulting in a high grade. The remote sends binary data through the magnetic field that tell the robot to spin 180 degrees, move back, move forward, and parallel park.

Alarm Clock   **January 2014**
- Programmed a simulation of an 8052 chip using an Altera DE2 Logic Board with Assembly to work as a 12-hour, am/pm clock, which resulted in an alarm clock that had the option to set the current time, set an alarm time, and have the alarm sound a buzzer at 2kHz once the alarm time is reached.

Laptop Repair   **August, 2012**
- Disassembled a nonfunctional laptop, testing various components, and learnt what different parts of the motherboard accomplish, allowing for increased knowledge of how a computer works, and what different parts of a motherboard are.
- Repaired a laptop by reflowing the solder on the motherboard, allowing the solder to melt just enough to fill in any potential electrical breaks in the circuit that may have appeared over time, resulting in a working laptop.

WORK EXPERIENCE

ByteCom Computer Services   **July, 2014 – August, 2014**
Computer Repair Technician
- Fixed broken, slow, and non-responsive computers in a computer repair shop by replicating the customer's problem, identifying the cause of the problem, and fixing the problem with the tools we had, resulting in satisfied customers.
- Techniques used to fix the computers include antivirus programs, file and registry manipulations, and taking the computers apart to diagnose hardware problems, resulting in faster, and better working computers.

Self Employed   July, 2013 – August, 2013
Landscaping/ Labour
- Broke stucco off the rear exterior wall of a house, fixed rotten parts of a leaking wall, and reapplied tar paper, as well as paved a pathway, resulting in a fixed wall, which could now be covered again with another material.
- Learned to use new power tools quickly in order to complete the job, including angle grinders and table saws, resulting in faster labour, and more experience with various tools.

Self Employed   June, 2013
High School Science Tutor
- Tutored a student in grade 10 science for their final exam by providing clear instructions and examples that they were able to understand, and apply in the exam, allowing the student to pass their test.
- Provided small tests with several questions on each to test understanding of the material, resulting in better preparation for the real final exam.

VOLUNTEER WORK EXPERIENCE

Delview Secondary School   April, 2014 – September 2014
Online Classroom Development
- Helped a high school science teacher develop an online classroom environment. Duties include writing Google Scripts to grade assignments, and take attendance, resulting in less marking time for the teacher so that he can dedicate more time to teaching his students, and instant feedback, as the assignments email the student their results.

North Delta Baseball Association and Surrey Canadian   April, 2010 – June, 2013
Baseball Organization
Assistant Coach
- Worked with a group of coaches to coach a range of age groups over the three season period.
- Duties include teaching how to play baseball by teaching proper throwing, catching, fielding, and hitting mechanics, resulting in increased performance by every player.
- Learned to explain our expectations of our players clearly, and learned to explain new concepts to the players by giving easy to understand examples, resulting in constant improvement.

EDUCATION

University of British Columbia   September, 2013 – Present
Bachelor of Applied Science in Computer Engineering (Software Engineering Option)

Kwantlen Polytechnic University   September, 2012 – April 2013
Engineering Certificate

AWARDS

Coaching Staff of the Year (Highest voted coaching staff in the league)   2012

PROFESSIONAL AFFILIATIONS

APEGBC Member Advantage Program for Students (MAPs)

ACTIVITIES AND INTERESTS

- Skiing/ Snowboarding
- Baseball – I played in the British Columbia Premier Baseball League for 2 years
- Hockey
- Guitar
- Fixing Computers
- Fixing/ Replacing Car parts