JOHN XU

2A ELECTRICAL AND COMPUTER ENGINEERING
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HIGHLIGHTS OF QUALIFICATIONS

- Ranked 1st out of 150 Electrical and Computer Engineering students for academic standing in 1B term
- Programming languages: C#, C++, C, Java, Python, MATLAB, VBA, VHDL, Assembly, and SQL
- Knowledge of web development languages HTML, CSS, JavaScript, JQuery, and Node.js
- Experience with Windows, UNIX, Git, Eclipse, Android SDK, Unity, and Altera Quartus
- Experience using FPGAs, ARM processors, and Oscilloscopes
- Experience with virtual reality environments development, including 3D binaural sound, haptic feedback, and Oculus Rift
- Excellent communications skills developed through dealing with clients and agents on the job
- Reliable, diligent, and organized worker and problem solver with quick learning skills

EDUCATION

Candidate for Bachelor of Applied Science, Electrical Engineering, Co-operative Program, University of Waterloo, Sept. 2013 – Present
- Relevant Courses: Digital Circuits and Logic, Computer Architecture and Assembly Language, Data Structures and Algorithms, Engineering Design in Embedded Systems, Electronic Circuits
- Cumulative average: 97.5%, Dean's Honours List

WORK EXPERIENCE

Virtual Reality Environments Research Assistant   **Sept. 2014 – Present**
- I am currently working with a professor in the Electrical Engineering department to integrate 3D binaural sound, haptic feedback, and Oculus Rift technology into a virtual reality environment using the Unity Game Engine

Ontario Public Service   **May 2014 – Aug. 2014**
- Developed a Python application to monitor the status of government applications and to notify the operations team if there are issues with them
- Developed a VBA application to analyze data log files and generate reports to inform the operations team of application downtime data
- Analyzed website and document accessibility; provided advice to clients based on analysis
- Managed server inventory

Century 21 Lanthorn Real Estate Ltd.   **July 2012 – Aug. 2013**
- Maintained databases of more than 100 real estate listings
- Handled calls on a multi-line phone system and dealt with clients to provide customer service
- Created promotional material for listing advertisements to attract clients

VOLUNTEER EXPERIENCE AND PROJECTS

Hack the North   **Sept. 2014**

- Worked with a team of four people in a two day hackathon to design and create a fully functional application using Myo gesture control hardware
- Quickly learned and applied Myo SDK as well as Google Maps API in order to implement interactive and intuitive gesture navigation control of Google Maps and Google Street View

Waterloo Engineering Competition   **Nov. 2013**

- Contributed to the running and overseeing of the competition
- Maintained the inventory of building materials and tools in the workshop for the projects
- Monitored the competitors during design and building stages to ensure fair competition

AWARDS AND SCHOLARSHIPS

- Recipient of the President's Scholarship of Distinction and the Engineering Entrance Scholarship from the University of Waterloo for an admissions average of above 95%
- Graduated secondary school with the top academic standing (97% average) of a class of 150 and received the Governor General's Academic Bronze Medal
- Recipient of the Horatio Alger Scholarship for demonstrating integrity and a desire to contribute to society
- Recipient of the Leona K. Riggs Estate Scholarship for excellence in music

INTERESTS

- Studied piano for over 10 years and played for various choirs, singers and bands, as well as by myself at concerts and other events such as receptions and dinners
- Played the trumpet in concert band and pit band at high school (2007 – 2013)
- Enjoy playing badminton and soccer at intramurals and clubs (2009 – present)