Wojtek Swiderski

1B Software Engineering
University of Waterloo ID#20554969
wswiders@uwaterloo.ca
(416) 317 – 0133
61 Grasslands Ave
Richmond Hill, Ontario L4B 4K7
Wojtechnology.com

Summary of Qualifications

- Proficient at Java, C/C++, Python, Android Development and front-end web development in HTML5, CSS3 and JavaScript
- Working knowledge of implementing teleoperated and autonomous systems for robots using National Instruments LabView and Arduino
- Comfortable with server-side web development in a UNIX environment using Apache, NodeJS, MySQL and MongoDB
- Experience with Git, Terminal and SSH
- Strong skills in organization, leadership and project management

Extracurricular Activities

Electrical Team Programmer September 2014 – Present
University of Waterloo Hybrid Team
- Created a serial protocol parser in C to transform raw sensor data into analyzable information
- Currently developing an Android application to display critical information to the driver

Lead Programmer September 2013 – June 2014
First Robotics Canada 4001 Robotics Team
- Implemented visual processing, sensor fusion and ladder logic using National Instruments LabView to design autonomous systems for competition robots
- Designed an interface to control the robots, to display critical information on the driver station, and to manage the robots' onboard systems through the use of state machines
- Mentored programmers from two other teams

Chair and Webmaster April 2011 – June 2014
United Nations York Catholic Assembly
- Designed and maintained the event website using JavaScript, CSS3, HTML5 and Adobe Photoshop
- Coordinated a Model United Nations event for 300 delegates

Projects

WoahPaper December 2014
A fun, social Android application that allows users to change the wallpaper of other users' devices
- Developed all aspects of the application including the Android client and the server

Tools: Android Studio, Java, NodeJS, MongoDB, Google Cloud Messaging

Scribbler Security December 2014
A security system that uses randomly generated patterns displayed on an Android device
- Created a visual processing algorithm used to determine the pattern being shown on the device
- **Tools:** Python

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Projects

CityKit.ca November 2014

A web service that displays local deals on a map using data gathered from Groupon and Red Flag Deals

- Designed the server backend as well as the parser

Tools: Ubuntu, Apache, NodeJS, MySQL, Google Maps API

Myo Pad November 2014

A Windows client that allows users to write on a computer using position data from the Myo Armband

- Developed an engine that used integrals and linear mappings to transform raw data into coordinates on the screen
- **Tools:** C++, Myo Armband API, OpenGL

R Card December 2013

A cross-platform desktop client that stores student account balances based on student ID

- Built entire application including user interface, history tracking and file I/O
- **Tools:** Java, NetBeans, Swing

Education

Candidate for Bachelor of Software Engineering September 2014 – Present

Honours Software Engineering, University of Waterloo, Waterloo ON

- **Term 1A GPA:** 4.0/4.0

Work Experience

Swim Instructor and Lifeguard September 2013 – August 2014

Town of Richmond Hill

- Instructed groups of two to eight children, aged four to fourteen, swimming techniques, water safety and basic lifeguarding skills
- Responded to emergency situations following National Lifeguard Service guidelines
- Interacted with patrons, teaching them about safety precautions and dealing with personal concerns

Award and Qualifications

- Procom Ability Prize recipient September 2014
- Andrew Rok Foundation Scholarship finalist April 2014
- President's Scholarship of Distinction, University of Waterloo March 2014
  (awarded to students with a 95% or higher entrance average)
- Top 25% in the University of Waterloo Euclid and Senior Canadian Computing Competition contests