

# Shaheen Moubedi

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## SKILLS SUMMARY

- **Hardware experience on robotics and computers**
  - Assembly with ARMv7-m Instruction Set using Keil MDK-ARM
  - VHDL with Altera FPGA's using Quartus II
  - Experience with Multisim, Eagle, pSPICE, Logicator, AutoCAD
  - Circuit design and assembly with bread boards, PCBs, and Surface Mount
  - Oscilloscopes, Multi-meters, Signal Generators, Soldering
- **Software development in the following languages and software**
  - Proficiency with C#, Java, and experience with C++
  - Web development with JavaScript, HTML, CSS, jQuery, SQL
  - Scripting with MATLAB, PowerShell, Batch, Python

## WORK EXPERIENCE

### **.NET and SharePoint Developer**

**August – December 2013**

*FGF Brands*

- Developed a multiplatform mobile web-app for remote file uploading
  - Capable of accessing the smartphone's camera, microphone, and internal storage
  - Would dynamically add fields and metadata and upload asynchronously to servers
  - Implemented HTML5, JavaScript, jQuery, and SharePoint JSOM
- Developed a document management system to update vendor purchase statuses, write back to a database, and send expiration emails when necessary
- Created scripts to transfer documents across servers and automate site creation

### **Traffic Systems Operations Technician**

**January – May 2013**

*Municipality of York Region*

- Programmed traffic signal timers as well as spread spectrum radio transceivers
- Serviced region-wide traffic signal cabinets for operational and communicational outages
- Adjusted traffic signal timing plans in response to planned and emergency traffic control issues
- Installed backup power to master cellular tower network hubs

### **Computer Technician**

**June – August 2010**

*E&N Computers*

- Assembled, upgraded, and repaired computers for commercial retail
- Solved software and hardware related technical issues such as viruses and BSOD's
- Dealt with approximately 30 computer builds by the end of the work term

### **Lifeguard / Swim and Lifesaving Instructor / Canoe Instructor**

**April – September 2012**

*City of Markham*

- Supervised classes of up to twenty students between the ages of 4 and 65
- Developed excellent leadership and teamwork skills

## RELEVANT PROJECTS

### Sound-reactive LED Lighting

- Designed and built a circuit to drive LED lights according to a PC's sound card output
- Operates using a variable amplifier with a low-pass filter, full-wave rectifier, rail splitter, latching push button switch, and comparators for separate lighting sections

### Android Step Counter with Mapping (ECE155)

- Developed a mobile app which would utilize a phone's built-in accelerometer and compass to count the user's steps and calculate their position and heading on a given map

## VOLUNTEER EXPERIENCE

### Annual Waterloo Cardboard Boat Race – Director

June 2013

*University of Waterloo*

- Managed the event's resources, publicity, and participant roster
- Oversaw the competition's success from start to finish

### Electrical Engineering 1A, 1B, 2A Class Representative

2012 - Present

*University of Waterloo*

- Spoke on behalf of the student base regarding feedback, complaints, and course work

## EDUCATION

### University of Waterloo - Waterloo, Ontario

September

Electrical Engineering – Candidate for Bachelor of Applied Sciences

2012 - Present

- Waterloo Euclid Mathematics Competition – Top 25% in Canada
- Chem13 Competition – Top Third

2012

2012

### Milliken Mills High School - Markham, Ontario

2008 – 2012

- Sears Canadian High School Graphic Design Competition Scholarship
- Computer Engineering Technology – Robot Showcased
- Computer Technology Award of Excellence

2012

2012

2010 – 2011

## CERTIFICATIONS

- Standard First Aid with CPR-C
- Automated External Defibrillation (AED)
- Airway Management

2011

2012

2012

## EXTRACURRICULARS

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|----------------------|-----------------------|----------------|
| • Waterloo Swim Team | • Graphic Design      | • Snowboarding |
| • Practicing Piano   | • Computer Enthusiast | • Kayaking     |