

1.0 Summary of Qualifications

- Six years experience in Software/Hardware Automation & Testing for Web, Mobile & Wireless Communication
- Excellent programming skills in Python, QT, C/C++, and MATLAB on multiple development environments
- Two years experience with 2D/3D Imaging and video algorithms for Medical and Industrial Applications
- Entrepreneurial, Sharp Design-Oriented mind developed through comprehensive & diverse experience
- Expert in OOP, Design Patterns and requirements engineering through work and teaching experience

Technologies	Programming Languages	Frameworks
Docker, AWS, Jenkins, Selenium, Appium, Locust, JMeter	Python, Ruby, Go, C/C++, Bash, MATLAB, HTML, CSS Javascript, SQL	Flask, Django, Sinatra Testing: Espresso, Locust

2.0 Academics

University of Waterloo -Waterloo, Ontario

Bachelor of Applied Science in Honors Electrical Engineering

January 2005 - April 2010

Related Courses: Digital Communications, Communication Systems, Communication Networks

3.0 Professional Experience

Wattpad Inc

Test Developer

July 2014 – February 2016

- Building & maintaining in-house scalable api, mobile & web automated testing infrastructure in Python
- Maintaining & improving a Continuous Integration & delivery pipelines using Jenkins & Docker on AWS
- Automated reporting using HTML pages, emails and [dashing.io](#) dashboard as well participating in daily scrums

University of Toronto

Teaching Assistant

July 2013 – December 2015

- CSC 301 (Introduction to Software Engineering)
- ECE 450 Software Engineering II

inLocus Inc

Managing Director

April 2012 – Present

- Developed a real-time 3D imaging solution using ROS, openCV in Linux environment
- Developed the hardware and software of a GPS tracking device, with cloud, web and mobile interface
- Managing financial and logistical operations to finish products in a timely manner

Polar Mobile Inc

Automation Engineer

September – March 2012

- Developed a device-agnostic end-to-end automated testing framework for smartphone applications
- Assessed product requirements, and developed/managed system, regression, and unit test plan and test cases

eSight Corporation

Configuration and Test Developer, Software Group

February – September 2011

- Developed Clinician's Workstation Software using C++ , QT , MySQL to configure eSight's intelligent eyewear
- Developed automation tools, Continuous Integration (CI) server and test plan/framework

CGI Group Inc.

Hesham Fahim

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Consultant, Systems Integration and Consulting Service

October 2010 – February 2011

- Planning and performing test plans, performance measurements, IT system profiling and analyzing complex data
- Conducting Penetration testing using Backtrack/Metasploit framework for Information Security Assessment

Research In Motion Ltd.

Embedded Systems Software Developer, Operating Systems group
December 2009

April 2008 –

- Developed Python scripts and functional tests in C to manage hardware peripherals within embedded devices for OS profiling
- Worked with various developers to get software models of USB and MMC units functioning and mimicking the hardware behavior (written in C++ in a Unix environment)
- Conducted full experimental analysis of uplink and downlink throughput over 802.11 b/g , EDGE, and 3G

Sunnybrook Research Institute

Biomedical Software & Applications Developer, Imaging Research
December 2007

September –

- Developed MATLAB code to improve the pre-treatment & post-treatment analysis for the Prostate Cancer Image-Guided Therapy project
- Improved methods for generating movies of 3D temperature maps in C++ and MFC environment
- Designed, built and characterized RF power detection circuit using Altium and in-house fabrication facilities

University Health Network

Research Assistant, Ontario Cancer Institute

January – August 2006

- Designed/optimized a novel micro-fabrication technique for micro valves in a high-throughput microfluidic device for single cell analysis
- Developed control and protection circuitry for the developed microfluidic chip (DAQ, LabView, PCB, micro pumps)
- Setup equipment for a class 100 clean room environment in the lab

University of Waterloo

Research Assistant, MIAMI Research Group, Waterloo, Ontario
2005

May 2005 – October

- Built a MATLAB toolbox using novel electric power load flow analysis algorithms
- Built a MATLAB image processing software with GUI for diagnosing ultrasound images of prostate cancer
- Worked on the characterization and integration of the Amplifier/Input circuit of a Portable Assistance Device for Narcolepsy patients

4.0 Volunteer Experience and Extracurricular Activities

- Participated in Canadian Undergraduate Technology Conference (CUTC), OCE Discovery conference, and Impact Conference, NBTC, May 2010 - Present
- Core Electrical team member, Midnight Sun Solar Car team, 2006-2008
- Member of Professional Engineers Ontario, January 2004-present

5.0 Awards and Achievements

- Third place in “Random Hacks of Kindness” for the project “Automated Wound Classification Application”
- Finalist in Deloitte Management Consulting Competition for the case titled “Symbian, Google & Apple in the Mobile Space”, March 2010
- Natural Science and Engineering Research Council (NSERC) Scholarship, May 2005