

Tamer Sherif

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EDUCATION

BASc in Electrical Engineering & BSc in Computing Technology

Ottawa, ON

Expected Grad Date: December 2018, CGPA: 3.7/4

2014

University of Ottawa

SKILLS

Software

- Programming languages: C/C++, Python, Java, MATLAB
- Operating Systems: Windows, Linux
- Web Application: HTML, CSS, JavaScript, jQuery, PHP
- Database: Microsoft SQL, MySQL

Development Tools

- Arduino IDE
- Eclipse IDE
- Android Studio
- Text++/Sublime

Hardware & Electrical Components

- Lab Components: oscilloscopes, function generators, breadboards, transformers, DC motors, generators, operational amplifiers, transistors
- Microcontrollers: Arduino board, Altera FPGAs

Other

- Agile Development
- Jira
- Git
- Quartus, VHDL

EXPERIENCE

BlackBerry Limited

Waterloo, ON

Enterprise Operations Intern

Jan-April 2017

- Debugged enterprise databases integrated with BlackBerry's cloud (Microsoft SQL, Ruby)
- Examined software cloud logs to determine errors and issues and recorded them in Jira while troubleshooting them
- Developed a plugin to improve productivity for support services (jQuery, JavaScript)

IEEE - uOttawa

Ottawa, ON

Executive Web Developer

May 2017-Present

- Developed and enhanced different site components (HTML, CSS, JavaScript, jQuery, and PHP)
- Managed and maintained Apache HTTP Server for the website

Shared Services Canada

Ottawa, ON

Cybersecurity Engineering Intern

April-Aug 2016

- Configured appliances including FortiGate and Cisco ASA firewalls, HPE ArcSight and IBM QRadar SIEMS, HP Edge and Juniper switches in several government data centers
- Authored and compiled the Canadian government's FortiNet FortiGate firewall build book, which covered every important aspect of the FortiGate (HA, VPN, SNMP, etc.)
- Administered and managed internal governmental lab database as well as Microsoft Exchange Server 2012 (Microsoft SQL)

PROJECTS

Basic Computer design and implementation on FPGAs – *Design Lead*

- Designed a basic computer's CPU (with 8-bit registers) through an FPGA board
- Constructed the complete logic circuitry to implement the ALU and CU of the basic computer (VHDL, Quartus II compiler & assembly language)

Remote Controlled Broda Chair - Bruyère Saint Vincent Hospital - *Project Lead*

- Led a project for Saint Vincent hospital to implement a new idea using design thinking methodology to motorize Broda chairs while implementing a remote-control system
- Determined appropriate design parameters such as motor and battery configurations
- Implemented a joystick remote controlled interface that controls the Broda Chair's movement (Arduino, C++)

Impact of Broadband Antireflection Coating Design on Solar Power Production

- Designed the most effective and efficient solar cell for optimal power production
- Examined and modeled the effects of design parameter changes (such as antireflection coating layer number and thicknesses, materials' refractive indices and the sun's spectral composition) on power production (MATLAB)

Maze Solving Robot

- Programmed and constructed an Arduino based motorized robot (Arduino, C++)
- The robot is capable of solving and going through any maze (ultrasonic sensors)

Personal Website Design

- Developed and designed a website to showcase my expertise (HTML, CSS, JavaScript and jQuery)

ACTIVITIES & LEADERSHIP

Startup Weekend by Google for Entrepreneurs

December 2016

- Created an initiative where we developed a startup idea of a mobile app platform (ecnnct) to increase accessibility for mental health support for people who are facing emotional distress (waterfall design method)
- Prepared a business and marketing plan as well as a detailed staff acquisition plan
- Deployed an MVP of ecnnct and presented our idea to judges (Android Studio, Java)

Strat24 Case Competition

January 2016

- Developed a business plan, examining client power consumption and investigated current hardware advancements that could assist in improving company-client transparency
- Implemented a phone app MVP that holds all that information and gives the user more accessibility as well as incentives to be more ecofriendly (Android Studio)