

Luxsumi Jeevananthan

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Electrical Engineering | University of Waterloo

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Why Luxsumi?

- **Highly developed analytical skills** that can be utilized for a wide range of problems
- Ability to **handle large amounts of data efficiently and effectively**
- Wide range of **programming skills**
- Exceptional **project management skills**; able to plan and manage short and long term activities
- Experience **presenting and writing technical topics** to a wide variety of audience
- Passionate about **wireless communications and RF Engineering**

Technical Skills

Hardware Tools: Function Generators, Digital oscilloscope, Soldering, Vector Network Analyzer

Software Tools: MATLAB, Eclipse, Microsoft Visual Studio, Microsoft SQL Management Server, ADS

Embedded Systems: Altera FPGA using Quartus II

Software Languages: Java, C#, C++, C

Education

Electrical Engineering, Honours, Co-operative Program - University of Waterloo

Expected April 2015

Research Experience

RF Engineer/Research Assistant, University of Waterloo, Waterloo, ON

August 2014 - Present

Supervised by Prof. Safavi-Naeini and Mentored by Dr. Mohammad-Reza



- Designing adaptive matching network along with simulations on ADS
- Implement algorithm to optimize the tunable matching network
- Collecting measurements of antenna and then presenting them in a feasible manner

Undergraduate Research Assistant, University of Waterloo, Waterloo, ON

January 2014 – August 2014



- Modeled urban/rural cellular networks in MATLAB
- Computed the throughput of static users in a cellular network, using different configurations that can provide the best throughput for the users

Optical Test and Software Developer, JDS Uniphase Corp., Ottawa, ON

Sept. 2013 – December 2013



- Researched in fringing field effects, and designed the program to assist with the research
- Performed tests and analyzed data using MATLAB
- Presented the summarized data analysis in meetings to several groups about the conclusions and the procedures of the tests
- Working knowledge in photonics especially in Wavelength Selective Switch (WSS)
- In-lab experience with alignment, setup, and performance analysis of WSS

Other Work Experience

Mobile Application Developer, Rebellion Media Group Corp., Waterloo, ON January 2013 – February 2013



- Collaborated in a group of six to create and debug applications
- Programmed in Objective C; implemented features on iOS applications using Xcode
- Implemented features on Android applications using Eclipse

Software Developer/QA, Sybase Canada Limited, Toronto, ON April 2012 – August 2012



- Knowledge in communicating with .NET applications through TCP and HTTP
- Interacted with other developers to program and debug automated tests in BlackBerry JDE and Eclipse
- Developed batch files using Android Debug Bridge
- Strengthened leadership skills; in charge of creating automation tests for BlackBerry

Junior Test Engineering, Soti Inc., Mississauga, ON August 2011 – December 2011



- Administered and designed the testing procedures on the mobile device management application for multiple OS (i.e. iOS, Android, and Windows)
- Taught several QA employees on how to test the application for Android devices
- Obtained and deciphered information from the SQL server using Microsoft SQL Server Management studio

Training Development/Programming, Enable Training & Consulting Inc., Milton, ON Jan. 2011 – April 2011



- Front-end web development experience; successfully developed a website
- Worked in a group of 5 to debug software applications
- Wrote several step-by-step guides on how to write programs in ROBOTC, while explaining the functions and what they do

Awards:

- **NSERC Undergraduate Student Research Award**, Fall 2014
- **Baylis Medical Capstone Design Award**, Baylis Medical Company Inc., Spring 2014
- **Undergraduate Research Award**, Winter 2014 and Spring 2014
- **First In-Class Scholarship**, University of Waterloo, Spring 2013
- **Dean's Honours List**, University of Waterloo, Fall 2012, Spring 2013, Winter 2014, and Spring 2014

Volunteer

Drop-in Math Tutor, University of Waterloo September 2014 – Present

- Tutoring first-year engineering students with calculus and linear algebra (Math 115,116,117)

Class Representative, 3B Electrical Engineers, University of Waterloo January 2014 – April 2014

- Created surveys with other class representatives to get feedback from fellow peers about the courses
- Had conversations with professors and conveyed the feedback from our classmates to them

Stage Manager, EngPlay, University of Waterloo May 2013 – August 2013

- Worked in a group of 5 to set-up stage and have all the props ready for the next scene
- Displayed my leadership by organizing the play and directing people to go on stage

Other Activities: Member of the Toastmasters Club, Shotokan Karate (Blue belt), Swimming, Piano (Grade 6 RCMP)