

## Education

### University of British Columbia

Jan 2017 - Present

- Master of Applied Science
- Research Area: Mobile Application Optimization

### Simon Fraser University

May 2011 - Dec 2016

- Bachelor of Applied Science - Electronic Engineering
- Business Administration Minor

## Work Experience

### ICT Product Engineer

May - Aug 2015

*PMC-Sierra Inc. - Burnaby, BC*

- Planned and performed characterization tests to assure products meet the specifications
- Automated tests using TCL scripts to collect statistical data for the product devices under various operating environments
- Analyzed statistical results and produced a quality report for the new DDR4 products
- Worked with cross-functional teams to effectively test new semiconductor products for production preparation

### Hardware Coop

Jan - Aug 2014

*Sierra Wireless Inc. - Richmond, BC*

- Reviewed new PCB layout design to ensure the design was consistent with the requirement specified by hardware component provider
- Conducted quality assurance test on the prototype or newly manufactured wireless modules, which assured the quality to meet customer's expectation
- Provided recommendation report for new design, which helped the new design to achieve better heat transfer capacity

## Projects

### Location Privacy Analysis for Mobile Applications

Jun - Dec 2017

- Demonstrated that applications can stealthily track the users' location with no permission granted
- Analyzed the top 1000 free Google Play applications to reveal that 4% of the applications are stealthily collecting users' location data
- Presented qualitative insights to show that the current Android permission scheme cannot fully protect the users from privacy leaks and thus better scheme is desired

## Projects Continued

### Analyzing Privacy Leaks in Android Wear

May - Dec 2017

- Presented the first research in research community on analyzing Android Wear privacy leaks
- Revealed leakage of hardware identifiers in popular Android Wear applications
- Provided strategies that could be used to mitigate this privacy issue

### UART Performance Monitor

ENSC 351 Project

Sep - Nov 2014

- Developed real-time programming skills through writing VGA and UART drivers that run on an embedded Linux system (PetaLinux)
- Created a software rendering framework in the ARGB color space, which could display images and text to the screen of the FPGA board
- Constructed a VGA serial console that displayed runtime performance characteristics and metrics of the UART interface on the screen

## Skills

### Hardware

- ✓ Patheon - PCB design
- ✓ Hyperterminal
- ✓ VHDL and Hayes Cmd Set
- ✓ Cadence Encounter
- ✓ LT Spice - Circuitry Design
- ✓ Hardware Test and Debug

### Programming

- ✓ Java
- ✓ Soot/ASM
- ✓ Android Development
- ✓ Python
- ✓ MATLAB
- ✓ TensorFlow

### Basic Skills

- ✓ Soldering Technique
- ✓ Database Management
- ✓ Project Management
- ✓ Bilingual - English & Mandarin
- ✓ Proficient Linux User
- ✓ Photoshop & MS Office

## Activities

- Teaching Assistant Sep - Dec 2017
- SPLASH 2017 Student Volunteer Oct 2017
- Illuminate Vancouver Guest Speaker May 2017

## Awards

- UBC International Tuition Award Jan 2017 - Present
- SFU Open-Scholarship For Academic Performance Sep - Dec 2012
- SFU Entrance Scholarship May 2011 - Apr 2012
- Dean's Honour Roll