

# Judy Hanwen Shen

University of Toronto  
Bachelor's of Applied Science  
and Engineering 2017

Engineering Science Electrical  
and Computer Engineering  
Option  
3.88 /4.0 CGPA

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## SKILLS

Languages: C, C++, Python, Assembly, Perl, TCL, Verilog  
Design: HTML, CSS, Wordpress, Photoshop, Illustrator, Sketch

## EXPERIENCE

### **Program Manager Intern –Microsoft**

Seattle, USA

May 2015 – August 2015, May 2016 – Current

Conceptualized, designed and shipped full implementation of suggested groups interface and algorithm in Outlook Groups feature. Worked closely with engineering, UI design, product marketing and user research teams to deliver full feature to production. Currently investigating integrating AI technologies into mailbox experience.

### **Embedded Software Intern – Verity Studios**

Zürich, Switzerland

August 2015 – May 2016

Designed, implemented and tested various drivers for autonomous quadcopter system including CRC, LED, Can Bus, EEPROM, IMU and Bootloader. Analyzed performance of embedded programs on TI microprocessor using advanced trace modules. Soldered customized components to test various microprocessor integrated PCB units. Automated testing of embedded memory peripherals using relay components.

### **Software Intern – Altera**

San Jose, USA

May 2014 – August 2014

Worked on High Speed Serial Interface transceiver team to design algorithms and tools to support FPGA development. Developed tool to automate flow of generating maps that connect physical circuit elements to software elements

## PROJECTS

### **Walk Home Safe**

- > Developed android application using Android Studio, Java and Github to empower women walking home alone in dangerous areas. The application uses a peer accountability system for friends to help keep one another safe.

### **Autonomous Candle Detection Robot**

- > Designed and implemented modular algorithm for candlelight detection using Assembly on Microchip Controller. Fully constructed autonomous robot with multiple moving parts from simple materials.

## REFERENCES

References are available upon request.