

# Emma Wang

emmawang9.github.io

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## Work Experience

- **IPD Hardware Support Engineer Co-op** **Nokia, Kanata, ON**  
**September 2017 - Present**  
*Bring up and program new boards. Debug and investigate boards with bugs by using lab tools*
- **Hardware Design and Verification student** **NXP Semiconductors, Gatineau, QC**  
**September 2016 - December 2016**  
*Investigate Platform Architect Multi-Core Optimization tools from Synopsys for simulations and collecting performance analysis data*
- **Research and Development student** **CarteNav Solutions, Halifax, NS**  
**May 2016 - September 2016**  
*Parallel computing research using CUDA/OpenCL and NVidia's Nsight GPU debugging and profiler tools*

## Education

- **Carleton University** **Ottawa, ON**  
*B.Eng. Electrical Engineering, co-op*  
*4<sup>th</sup> year standings*  
*Available for 4 – 12 months' work term starting January 2018*  
**anticipated 2019**

**Relevant courses:** Computer organization, Basic EM and Power engineering, digital electronics, physical electronics, systems and simulations, Electronics, switching circuits, circuits and signals, object-oriented software development

## Technical Skills

Experienced with soldering through hole and surface mount (402) components and working in a lab environment with lab tools such as oscilloscopes, multi-meters and analyzing at schematics or PCB layouts.

**Languages:** C/C++, Python, Java, OpenCL, Verilog

**Hardware Platforms:** Arduino, Raspberry Pi, Jetson TK1, FPGA (Xilinx)

## Projects

- **Automatic Drink Mixer**  
*An automatic drink mixer with a voice recognition system for ordering drinks*
- **Simple Traffic light simulation**  
*Implemented a simple simulation using LEDs and buttons of a 3-way intersection with pedestrian and traffic lights at all three intersecting intersections*

## Volunteer Experience

- CUHacking 2017 Co-lead
- IEEE Carleton Vice-Chair 2017-2018
- IEEE Carleton Women in Engineering Vice chair 2016-2017
- IEEE Student Professional Awareness Conference 2017 outreach coordinator
- IEEE Student Professional Awareness Conference 2016 Master of Ceremony
- Ottawa Senator Foundation 50/50 seller 2016 - present