Emma Wang
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Work Experience

- **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   *anticipated 2019*
  3rd *year standing with a CGPA of 9.04/12.0*
  Available for 8 – 12 months' work term starting September 2017

  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

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
- **Desk Organizer reverse engineering project**
  A redesigned pencil holder with new functions to optimize desk space and organization

Volunteer Experience

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