

Owen Qiao

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Education

B.ENG. SPEC. HONS. ELECTRICAL ENGINEERING | FEB 2019 | YORK UNIVERSITY

- The Gordon and Agnes (Twambley) Brash Award in Eng York Aug 2014
- University Continuing Student Scholarship Nov 2015, Nov 2014

Skills and qualifications

- Java, Javascript, C/C++, C#, .NET Core, Python, PyQt GUI, Verilog, MIPS assembly
- MATLAB/Simulink, LabView, Altium Designer, Cadence, NX, Solidworks
- Linux, Object- Oriented programming, Data structures, OS, multithreaded programming, Git
- Digital communication, signal processing, control systems
- FPGA, Embedded software development, Atmel studio, Microchip family microcontroller
- Power electronics, PCB design, hot air rework
- Multimeter, oscilloscopes, function generator, digital analyzer
- Circuit testing, software debugging, problem-solving and analytical skills

Volunteer Experiences

CREATIVE MANAGER|EXCELLASSONDE|2014 - 2015

- Advertised our tutoring service by creating and distributing posters and doing announcements before lectures.
- Worked as a peer tutor on first and second- year courses such as physics, Java, and C etc.
- Prepared and conducted interviews to recruit new peer tutors for our organization.

VICE PRESIDENT|ELECTRICAL ENGINEERING CLUB FOR STUDENTS|2014 - 2017

- Co-founder the of club.
- Participated in the creation of constitution, club registration and other various administration tasks.
- Provided logistic support for events such as C Programming Tutorial, Armature Radio Building, and other various club projects.

Research Experiences

RESEARCH ASSISTANT | BIOSA LAB YORK UNIVERSITY | 2018-2019

- Designed and developed a wireless gesture recognition glove with IoT products.
- Designed and developed a breath rate sensing system for small animals with IoT products.
- Gained experience with wireless technologies such as BLE, Wi-Fi, TCP, HTTP.
- Designed and developed a testing platform for a bio-sensor IC with Arduino and custom PCB.
- Managed BOM files and ordered PCB and components from manufacturers and suppliers.
- Assemble the PCB with hot air rework station which includes 0603 components and DFN6 ICs.
- Gained experience with various serial communication protocols such as SPI, UART.
- Wrote graphical testing applications with PyQt, C#, MATLAB.