Owen Qiao

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# Objective

* I am an electrical engineering student who’s passionate about the electronics industry. Currently, I am looking for an entry-level job to apply my skills and expertise.

# Education

* B.Eng. Spec. Hons. Electrical Engineering | Oct 2018 | York University

# Achievements

* The Gordon and Agnes (Twambley) Brash Award in Eng York Nov 2015, Nov 2014
* The award is presented annually to a full-time student enrolled in the Engineering Degree Program within the Lassonde School of Engineering, who has maintained a cumulative grade point average of 6.0 (B) or above.
* University Continuing Student Scholarship Aug 2014
* The York University Continuing Student Scholarships are distributed annually in August for the upcoming fall/winter session to undergraduate degree students who have achieved outstanding academic results in the previous summer and fall/winter sessions.
* Lassonde Undergraduate Research Conference Aug 2018
* A Non-Invasive Wireless Respiratory Monitoring System for Animals (poster)
* K. Qiao, A. Nickerson, S. MacDonald, E. Ghafar-Zadeh
* 61st IEEE International Midwest Symposium on Circuits and Systems Aug 2018
* Age-Related Macular Degeneration Diagnostic Tool: Hardware and Software Development
* N. Mohaghegh, S. Munidasa, X. Zihao, K. Qiao, S. Magierowski, and E. Ghafar-Zadeh

# Skills and qualifications

* Java, Javascript, C/C++, C#, .NET Core, Python, PyQt GUI, Verilog, MIPS assembly
* MATLAB/Simulink, LabView, Altium Designer, Cadence, NX, Solidworks, Siemens PSSE
* 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
* 3-hase power distribution network, synchonous machine, transformers
* Multimeter, oscilloscopes, function generator, logic analyzer
* Circuit testing, software debugging, problem-solving and analytical skills

# Volunteer Experiences

## Creative manager | Excellassonde | 2014-2015

* Advertised our tutoring service.
* Creating and distributing posters and doing in class announcements.
* Worked as a peer tutor for first and second- year courses.
* Revised the tutorial schedules.
* Prepared and conducted interviews to recruit new peer tutors.

## Vice President | Electrical Engineering Club for Students | 2014-2018

* Administrative work including revising the constitution, annual club registration, and managing club account.
* Provided logistic support for events such as requesting event space, advertising, applying for funds and ordering food and drinks.

## Electrical SUBSystem DesiGNer | York university Space engineering nanosatellite demonstration group | 2015-2016

* Revised existing power distribution board PCB layout.
* Participated in creating payload handling application on NASA opensource OS.
* Gained experience on embedded software development.
* Conducted battery qualification test.

## Electrical SUBSystem DesiGNer | Lassat CSDC yorku team (Canadian Satellite Design Challenge) | 2016-2018

* Created new component libraries for the satellite solar cell.
* Schematic entry and the layout design of satellite solar panels using Altium designer.
* Prepared presentation and tutorials for new members of the team.
* Took part in revising various electrical subsystems of the satellite such as OBC, EPS, ACS boards.

# 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.
* Designed and developed a testing platform for a bio-sensor IC with Arduino and custom PCB.
* Conducted chemical test on bio-sensor ICs.
* Managed BOM files and ordered PCB and components from manufacturers and suppliers.
* Assemble the PCB with hot air rework station.
* Gained experience with various serial communication protocols such as SPI, UART.
* Wrote graphical testing applications with PyQt, C#, MATLAB.
* Gained experience with wireless technologies such as BLE, Wi-Fi, TCP, HTTP.
* Extensive hands on experience with sensor sand data acquisition system