

# Kuanghua Qiao (Owen)

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Mississauga, ON, L5R 3P5 | 647-220-5668 | qiaokuanghua@gmail.com

## 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 | 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

### **ELECTRICAL SUBSYSTEM DESIGNER | YORK UNIVERSITY SPACE ENGINEERING NANOSATELLITE DEMONSTRATION GROUP | 2015-2016**

- Revised existing power board PCB layout.
- Participated in creating payload handling application on NASA opensource OS core flight executive.
- Participated in battery qualification testing.

### **ELECTRICAL SUBSYSTEM DESIGNER | LASSAT CSDC YORKU TEAM (CANADIAN SATELLITE DESIGN CHALLENGE) | 2016-2018**

- Created a new component library for the satellite solar cell.
- Designed the schematic and the layout 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.
- 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.