Kuanghua Qiao

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# Objective

I am an electrical engineering student who’s passionate about the space engineering. I have worked on CSDC during my undergrad years and I was really inspired by the mechatronics aspect of space engineering especially after the trip to CSA in Ottawa. And I have been eager to further the space engineering technology ever since.

# 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 Aug2018

Age-Related Macular Degeneration Diagnostic Tool: Hardware and Software Development

N. Mohaghegh, S. Munidasa, X. Zihao, Q. Owen, S. Magierowski, and E. Ghafar-Zadeh

# Skills and qualifications

* CubeSat design approach
* Mechanics and thermal design
* Java, C, C#, and .NET Core
* Entry level data analysis and digital signal processing with Python
* Unix/Linux shell scripting and software development
* Knowledge of data structure
* Operating system and multithreaded programming
* MATLAB, Simulink
* VI design with LabView
* PCB Design with Altium Designer
* Analog and Digital circuit design with Cadence EDA tools
* CPU architecture and MIPS assembly language
* Embedded Systems Development, IoT, BLE
* Microsoft Word, PowerPoint, Excel
* Test-driven development approach
* Debug, Problem-solving and analytical skills
* Excellent communication and teamwork skills
* Ability to create concise and informative technical reports

# 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 | 2014-2018

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

## Electrical System Developer | CSDC (Canadian Satellite Design Challenge) | 2015-present

* Designed the satellite solar panel.
* Prepared presentation and tutorials for new members of the team.
* Took part in the modification of various electrical subsystems of the satellite.
* Participated in the vibration test at David Florida Laboratory CSA.

## Research Assistant | BioSA Lab York University | 2018-present

* Designed and implemented wireless embedded systems with IoT products.
* Designed PCB for IC testing.
* Gained experience with various serial communication protocols such as I2C, SPI, UART.
* Got familiar with wireless technologies such as BLE, TCP, HTTP.
* Gained experience with embedded development on Atmel microcontrollers.