

Kuanghua Qiao

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Objective

I am an electrical engineering student who's passionate about the electronics industry. Currently, I am looking for entry level job to gain experience as well as an entry for my future career.

Education

B.Eng. Spec. Hons. Electrical Engineering

York University, Toronto

June 2019

- The Gordon and Agnes (Twambley) Brash Award in Eng York
- University Continuing Student Scholarship

Aug 2014

Nov 2015, Nov 2014

Highlight of skills and qualifications

- C, C# and Java programming language
- Unix shell scripting and software development
- MATLAB, Simulink
- LabView
- Altium Designer, Orcad Pspice
- VLSI with Cadence Virtuoso
- Basic digital logic design and MIPS CPU architect
- Knowledge of integrated analog circuit design
- Continuous and discrete signal and system analysis
- Control system analysis and design
- Embedded Systems Development
- Analytic skill with a function generator and oscilloscope
- Knowledge of power electronics
- Microsoft Word, PowerPoint, Excel
- Excellent communication and teamwork skills
- Ability to create concise and informative technical reports

Experiences

Creative manager, Student tutor at Excellassonde

2014-2015

(A peer tutoring service under Lassonde Student Government)

- Created and distributed posters for our tutoring service. Doing announcements to students before lectures to publicize our service.
- Provided tutoring service to students who booked an appointment for some first and second-year courses such as physics, Java, and C etc.
- Prepared and conducted interviews to recruit new tutor for our organization.

Vice President at Electrical Engineering Club for Students

2014-2017

- Founded the club by creating the club constitution, registering the club with SCLD and YFS and recruiting the first executive team.
- Settled location, time and contacted club members for general meetings each semester.
- Attended annual meetings with YFS and SCLD, and weekly meeting with LSG.
- Provided support for events such as C Programming Tutorial, Armature Radio Building, and our club project Electronics vending machine.

Power System Designer at CSDC (Canadian Satellite Design competition) 2015-present

- Used Altium Designer to create an integrated library, circuit schematic, and PCB layout for satellite solar panels.
- Verified and redesigned the power regulation board from a previous project QB50.
- Wrote an application to handle serial ports for satellites' Onboard Computer and gained a good knowledge about NASA open source flight control software—Core Flight Executive.
- Prepared presentation and tutorials for new members of the team.

Lab monitor at Lassonde School of Engineering York University 2017-2018

- Managing device rentals to students and York employees.
- Enforcing lab regulations such as food and drink policies.
- Monitor and report any machine malfunctioning.
- Opening and closing inventory when the lab opens or closes.

Research Assistant at BioSA Lab York University 2018-present

- Designed a wireless human-computer interaction glove while can command a computer with gestures.
- Built the hardware functionality of the glove.
- Programmed the embedded system with Arduino IDE.
- Wrote a C# client that handles the sensor data on a computer.
- Formulate and executed test cases for the complete system.