Owen Qiao

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Objective

I am an electrical engineering graduate who's passionate about the electronics industry.
 Currently, I am working as a research assistant. And I am looking for an entry-level job starting around December.

Education

· B.Eng. Spec. Hons. Electrical Engineering | Feb 2019 | 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)

Skills and qualifications

SOFTWARE SKILLS

- · Java, Javascript, C, C#, .NET Core, Python, PyQt GUI, MIPS assembly
- · Linux, Object-Oriented Programming, Data structures, multithreaded programming, Git

HARDWARE SKILLS

- · FPGA, Verilog, Embedded software development, I2C, SPI, UART, Bluetooth, Wifi
- Embedded hardware design, Power Electronics, PCB layout design, BOM management
- · SMT soldering, Hot air rework, Wire bonding, Electroplating, Electronics repair

THEORETICAL KNOWLEDGE

- · Digital communication, Digital logic, Signal processing, Control systems, Operating systems
- · 3-phase power distribution network, Synchronous machines, Transformers

DESIGN AND DIAGNOSTIC TOOLS

- · MATLAB, LabView, Altium Designer, Cadence, NX, Solidworks, Siemens PSSE, Atmel studio
- · Multimeter, oscilloscopes, Function generator, Logic analyzer, Network analyzer

SOFT SKILLS

- · Can-do attitude, dare to take on any challenge, willing to learn anything to get the job done
- · Ability to plan, prioritize and execute multiple tasks and meet the designated deadlines
- · Good teamwork and communication skill as well as, dependent problem-solving skills

Volunteer Experiences

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

- · Revised existing EPS board PCB layout.
- · Participated in creating payload handling the application on NASA opensource OS.
- · Conducted battery qualification test.
- · Gained elementary knowledge in embedded software development.

ELECTRICAL TEAM LEAD | LASSAT CSDC YORKU TEAM (CANADIAN SATELLITE DESIGN CHALLENGE) | 2016-PRESENT

- · 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.

Work Experiences

RESEARCH ASSISTANT | BIOSA LAB YORK UNIVERSITY | 2018-PRESENT

- · 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.
- · Wrote graphical testing interface with PyQt, C#, MATLAB.
- · Gained experience with various serial communication protocols such as SPI, UART.
- · Gained experience with wireless technologies such as BLE, Wi-Fi, TCP/IP.
- Extensive hands-on experience with sensors and data acquisition system.
- Excellent device characterization, testing, and product prototyping skills