Kuanghua Qiao

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June 19, 2018

The Hiring manager York University Toronto

Re: Lab technician, Mechanical Engineering Greetings hiring manager:

I am writing to reply to this Lab technician position that found on York's career website.

I graduated from Lassonde as an electrical engineer earlier this spring and have been working in the BioSA lab ever since. Thus, I am very well versed with electrical laboratory equipment. In addition, I spent 2 years in a mechanical engineering program back in China, during that time I also got experience on lathes, grinding, milling machines. So, I have confidence that I can get proficient with our laboratory in no time.

As elaborated above, I believe I am an excellent fit for the job. I am still currently working at BioSA lab, and I will be available by December. I will be looking forward to your reply.

Yours sincerely,

Kuanghua Qiao

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. I will be available by 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)
- 61st IEEE International Midwest Symposium on Circuits and Systems

Aug 2018

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

Skills and qualifications

- · Java, Javascript, 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-phase power distribution network, synchronous 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.

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

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

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