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 an entry-level job to apply my skills and expertise.

Education

B.ENG. SPEC. HONS. ELECTRICAL ENGINEERING | OCT 2018 | 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

- Verilog, 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 programming with LabView
- PCB Design with Altium Designer
- Surface-mount soldering with hot air
- Analog and Digital IC design with Cadence EDA tools
- CPU architecture and MIPS assembly language
- Embedded systems software development
- Siemens NX motion and thermal simulations
- Microsoft Word, PowerPoint, Excel
- Test-driven development approach
- Debug, Problem-solving and analytical 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.

ELECTRICAL SUBSYSTEM DEVELOPER | CSDC (CANADIAN SATELLITE DESIGN CHALLENGE) | 2015-PRESENT

- Designed the layout of satellite solar panels.
- Prepared presentation and tutorials for new members of the team.
- Took part in the modification of various electrical subsystems of the satellite.

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.
- Got familiar 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 passive components and DFN6 ICs.
- Gained experience with various serial communication protocols such as SPI, UART.