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

· 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
· 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, IoT, BLE
· 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 SYSTEM DEVELOPER | CSDC (CANADIAN SATELLITE DESIGN CHALLENGE) | 2015-PRESENT

· Designed the layout of satellite solar panels and they functioned perfectly.
· 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-PRESENT

· Designed and implemented wireless embedded systems with IoT products.
· Gained experience with various serial communication protocols such as SPI, UART.
· Got familiar with wireless technologies such as BLE, Wi-Fi, TCP, HTTP.
· Designed PCBs as IC testing platforms with Altium Designer.
· Assemble the PCB with hot air rework station which includes 0603 passive components and DFN6 ICs.
· Acquired full experience with embedded system development from microcontroller programming to PCB design and layout, and further to ordering PCB from the manufacturer, and finally assembling the PCB.