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 | FEB 2019 | 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, Java script, C, C#, .NET Core, Python, PyQt GUI, bash shell scripting, Verilog, MIPS assembly
· MATLAB/Simulink, LabView, Altium Designer, Cadence, NX, Solidworks
· Linux, Data structures, OS, multithreaded programming, CPU architecture
· Digital communication, signal processing, control systems
· Embedded software development, Atmel studio, Microchip family microcontroller
· FPGA, Power electronics, 4-layer PCB Design, hot air rework
· Multimeter, oscilloscopes, function generator, digital analyzer
· Circuit testing, software debug, problem-solving and analytical skills

Volunteer Experiences

ELECTRICAL SUBSYSTEM DESIGNER | YORK UNIVERSITY SPACE ENGINEERING NANOSATELLITE DEMONSTRATION GROUP | 2015-2016
· Revised existing power board PCB layout.
· Participated in creating payload handling application on NASA opensource OS core flight executive.
· Participated in battery qualification testing.

ELECTRICAL SUBSYSTEM DESIGNER | LASSAT CSDC YORKU TEAM (CANADIAN SATELLITE DESIGN CHALLENGE) | 2016-2018
· Created a new component library for the satellite solar cell.
· Designed the schematic and the layout 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 | 2018-2019
· 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.
· Gained experience 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 components and DFN6 ICs.
· Gained experience with various serial communication protocols such as SPI, UART.
· Wrote graphical testing applications with PyQt, C#, MATLAB.