

# Kuanghua Qiao

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**June 19, 2018**

The recruitment manager

Ecobee

Toronto, ON

**Re: Embedded Developer**

**The recruitment manager:**

I am writing to reply to this Embedded Developer position that I saw on your company's career website. I am attracted to this position due to my experience with the embedded system and IoT. I have a wide variety of experience with electronics ranging from programming to PCB design, with my learning skills and a bit of guidance, I can tailor myself to your need as well.

As an electrical engineering student, I have experience with C and Java programming language in various course works, as such I will be able to pick up C++ with relative ease. I have also programmed several IoT boards from Adafruit industries during my research experience. I was able to build a Bluetooth human-computer interaction glove and a Wi-fi heart rate sensing system for dogs. Now I am fully capable of establishing data link from sensor to our desktop either through Bluetooth or Wi-Fi. Finally, I participated in designing the power electronics system in the Canadian Satellite Design Challenge, which included electrical power subsystem, onboard computer, an attitude control subsystem, and communication system. During which I gained experience on how to create integrated libraries, schematic, PCB layouts and fabrication files in Altium Designer. Although, our satellite was not fully functional we learned numerous lessons over PCB design as well as overall satellite design.

Above all, I am a person who enjoys fast-paced building and testing iteration of electronic devices. My passion towards the Internet of Things and the goals of personal growth would make me a perfect candidate to work at Ecobee. Thank you for your consideration, and I look forward to speaking with you soon about this exciting chance to become part of the Ecobee team. Please feel free to contact me by email if you have any further questions.

**Yours sincerely,**

**Kuanghua Qiao**