Statement of Research Interest

My name is Kuanghua Qiao. My main research interest is embedded hardware/software and low power mixed-signal Integrated Circuit Design. I am writing to express my interest in pursuing the MASc at Department of Electrical Engineering & Computer Science of York University. I am excited by the prospect of performing research and broadening my knowledge of Integrated Circuit design, and I believe I would make an excellent master candidate. Professor Ghafar-Zadeh and I have discussed about the available master position in BioSA research group. As he found me a qualified candidate for this position, supporting my application, he has agreed to be my master supervisor should I be accepted.

I am passionate about embedded system and Integrated circuit design. During my time as an undergraduate student I have been working in BioSA laboratory under professor Ghafar-Zadeh’s supervision for 2 semesters. For my first project I participated in the *Age-Related Macular Degeneration Diagnostic Tool: Hardware and Software Development.* In this project, I developed a wireless input apparatus that can capture hand gestures. The resulting device can recognize two distinct hand gestures made in real-time with an accuracy of 82%.