**Personal Statement**

I spent my first year at George Fox University in America, studying mechanical engineering. However, I found that many traditional mechanical parts used to control by hydraulic pipes can be easily replaced by microcontrollers and servo motors which the control data can be easily acquired and further processed. This reminded me of the programming experience for the microcontroller in my high school, which led me to change my major to Electrical and electronic engineering and reapplied to the University of Nottingham. The in-depth study and understanding help me continuously adjust the direction moving forward.

In the first year at Nottingham, I participated in a group project to design a robot car to achieve some advanced functions such as line following by applying OpenCV to cameras and PID control. Besides, there were some other modules like RFID sensor, gyroscope, accelerator as well as a remote controller where powered by Arduinos and a Raspberry Pi. In this project, I did 85% of the programming and hardware designing. Therefore, I further realized that programming was the tools for all the engineering subjects. From my perspective, I think if I could learn more programming skills and applied with my electronic hardware skills, I could have a better ability to design electronic items. Thus, I changed my major from Electrical and Electronic engineering to Electronic and Computer Engineering in my second year.

Beyond academic projects, I also plunged myself into various internships. In my freshman summer, I went to my friend’s company and helped them write the Android application, for which my self-studied Java and a little bit of python came in handy. Besides, we built a website based on my knowledge of CSS and HTML. These awakened me that programming is the best thing I ever leant. With such accumulation, I started to know the relevant subject such as artificial intelligence and machine learning. I accidentally got a VR device from my friend this summer, and I played the flight simulator with it. The immersion feeling made me feel that this is the future. Further, interning in CASC, I designed the CanSat for high school students based on stm32 microcontrollers. Besides, I helped high school students designed a real satellite theoretically. This satellite was a 2U cube satellite which was called Bayi Youngsters' Expedition No.2, and it will be launched by the end of this year. In this project, we calculated the SNR and other relevant performance requirements to design the ideal transmitter and receiver and wrote the programs to test the stability of the satellite by applying the PID control on the momentum wheels. The PID control I further modified it this summer and applied on my homemade rocket. Although the trial flight failed eventually, I have an interest in the robotics and automatic control.

The artificial intelligence can be applied to many areas and it would provide strong benefits in the industry which has a strong connection with the control system. Many difficult tasks could be solved based on big data by applying machine learning. The artificial intelligence would provide a new method to solve tough problems. This is why I choose this major in my master’s degree.

To launch my studies, I cast my eyes on the Artificial Intelligence MSc at Edinburgh for its advanced knowledge in AI, internationally known experts and well-structured curricula. After graduation, I will probably join a hardware-based company such as Dji or Siemens instead of an internet company. The hardware knowledge I have learnt plus the AI knowledge I learnt from Edinburg will definitely provide me with an extraordinary experience in those companies.