Dear Prof. Gon-Woo Kim

I am writing to apply for the Simultenous Localization and Mapping Researcher position in the Intelligent Robotics project as advertised on the university website. I have just finished my Degree of Bachelor (Bs) of Electronic and Telecommunication at Da Nang University of Science and Technology, Viet Nam. Beside that I have more than a year and half working on FPT Software Company as a Software Developer for automative system on car.

During my Bs, I have studied various topics refer to hardware such as Semiconductor for understanding about the semiconductor devies, Circuit Theory to comprehensive the theory for calculating voltage, power and current in circuit, Circuit Analysis to dig into the circuit and understand the deep work of circuit. Beside that, I have made several of projects about Internet of Thing and Controller System including Water Level Monitoring in the dam for monitoring the water level to warning to client if it is to high and start motor for pumping the water out from the dam using STM32F4 and ultrasonic sensor for detecting the distance from the water to the top of dam. Another one is swift-bird house monitoring for taking care of swift-birds and monitoring the behavoir of them using ESP8266 and MQTT technology to communicating between the module with Node-red Server. Through 4.5 years in university, I tried to get for myself as much as possible the knowledge in school and using for my working life and I had a futher step in the jouney of studying so I work for FPT Software Company.

Through a year and half of working, I did work for the automative system on car, more detail is tractor system and receiving more experience refer to technologies, protocols including: UART, Serial, I2C, CAN and Remote Procedure Call (RPC) and my skills in programming C/C++, Javascript and Python were improved too. While working for the company, I recognized that I was interested in the automative system or robotic system in real world so I am trying find out a chance for studying, researching about them and reading the information relate to them as well.

In progress of searching and reading about the robotic system, I am strongly interested in building SLAM in robotic system, which requires combination of various technologies deeper such as machine learning and AI. Moreover, I always want to conduct research that involves industry-academia collaborations to solve real-world problems. I found that your research agenda is completely matched my research experiences and interests. As a person who is fascinated with solving practical problems using scientific methods, I am eager and willing to learn new knowledge, expand my skills, and collaborate with excellent colleagues. Therefore, I believe that it will be a great opportunity for me conduct future research about Robotics.