

## **STUDY PLAN IN DETAIL**

**Name:** Do Phuoc Bao Long

Dear Members of the Scholarship Committee,

I am writing this letter to express my sincere interest in pursuing a Master's degree in Mechanical and Electro-Mechanical Engineering at Sun Yat-sen University. I am highly motivated to contribute to the field of robotics innovation and agriculture. Through this educational endeavor, I hope to outline my academic and research goals throughout my time in the master's program.

### **Admissions Committee**

Department of Mechanical and Electro-Mechanical Engineering

National Sun Yat-sen University, Taiwan

### **Study plan**

#### *First year:*

**Literature Review:** Start with an in-depth study of the existing research and literature in robots. Understand the key concepts, algorithms, and recent advancements in the field.

**Coursework:** Take relevant advanced courses in robotics, computer vision, machine learning, and control systems.

**Research Proposal:** Develop a comprehensive research proposal outlining my objectives, methodologies, and potential contributions.

**Initial Experiments:** Begin conducting small-scale experiments to familiarize myself with the practical aspects of my research area.

#### *The second year:*

**Advanced Courses:** Continue taking advanced courses that align with my research interests and broaden my knowledge in related fields.

**Implementation and Testing:** Begin implementing my research ideas and algorithms. Test them rigorously using real-world data or simulations.

Data Collection and Simulation: Gather relevant datasets or create simulations to evaluate my algorithms and models.

Complete Research Work: Finalize my research work and complete all experiments and simulations.

*Note: The timeline and specific tasks may vary based on individual circumstances, research progress, and available resources. Regular consultations with advisors and continuous adaptation of the study plan are essential for the successful completion of the Master program.*

## **Conclusion**

I am very excited about the opportunity to pursue a Master's degree at NSYSU and contribute to the development of robotics in agriculture. This scholarship will play a crucial role in supporting my research and enabling me to make meaningful contributions to the advancement of innovative solutions for sustainable crop pollination.

I am committed to maintaining the highest academic and ethical standards throughout my time at NSYSU. I believe that my dedication to this research field will have a positive impact not only on my personal learning journey but also on the broader agricultural community.

I would like to express my deep gratitude to everyone who has reviewed my application. I eagerly look forward to the opportunity to join the Mechanical and Electro-Mechanical Engineering at NSYSU at National Sun Yat-sen University.