

Dear Members of the Scholarship Committee,

Recommendation Letter for Tran Quoc Khanh

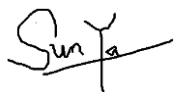
I am writing to enthusiastically recommend **Tran Quoc Khanh** for the **DAAD STEM Scholarship** to support his pursuit of a Master's degree. I had the pleasure of supervising Khanh during his internship at A*STAR SIMTech (Singapore Institute of Manufacturing Technology) from February to June 2024, where I was impressed by his intellectual curiosity, technical skills, and dedication to academic excellence.

Throughout his internship, Khanh demonstrated a remarkable aptitude for modeling, simulation, and machine learning. His project, titled **"Social-Industrial Symbiosis System for Household Waste Circularity using an AI Approach,"** showcased his depth of understanding, creativity, and ability to apply advanced methods to real-world problems. He tackled complex challenges with determination, often surpassing my expectations with his analytical and problem-solving abilities.

In addition to his technical expertise, Khanh displayed excellent teamwork and the ability to work both independently and collaboratively. During his internship, he worked closely with my Ph.D. student, Zhao Lan from NTU, contributing significantly to the success of the project. His proactive approach to research and experimentation allowed him to continuously enhance his understanding of the subject. Khanh also demonstrated strong communication skills, effectively presenting technical concepts and actively engaging in discussions with both peers and faculty. As a result of his outstanding work, our team achieved notable research outcomes, culminating in the submission of a paper titled **"An Agent-Based Model for Intervention Assessment in Singapore"** to the **32nd CIRP Life Cycle Engineering Conference (LCE 2025)**. This accomplishment reflects Khanh's ability to deliver high-quality research outcomes and his commitment to making meaningful contributions to the field.

Given Khanh's proven academic performance, intellectual curiosity, and strong work ethic, I am confident he will excel in his Master's studies and make significant contributions to his chosen field. He is a deserving candidate for the DAAD STEM Scholarship, with the potential to have a lasting impact both in academia and industry. Please feel free to contact me at **Sun_Yajuan@simtech.a-star.edu.sg** if you require any further information.

Sincerely,



Dr. Sun Yajuan, PhD
Senior Research Scientist, Singapore Institute of Manufacturing Technology (SIMTech)
Agency for Science, Technology and Research (A*STAR)