

Chi Lan Ngo

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EDUCATION

Bachelor of Science – Mechanical Engineering VinUniversity Oct 2020 – June 2024
Merit-based 100% Scholarship | CGPA: 3.32 | Major GPA: 3.61
Exchange Program – Mechanical Engineering Technion, Israel March – Aug 2023

EXPERIENCE

ScanTech3D Vietnam, Hanoi, VN Aug 2022 – Oct 2022

Technical Support Intern

- Learn 3D designing and inspecting using GOM software.
- Collaborate with employees in 3D scanning and designing to suit customers' demand.
- Attend industrial conferences and help establish partnerships with several manufacturing companies.

ARAM (Autonomous Robotics and Additive Manufacturing) Lab at VinUni July 23 – Present

Team Member

Reinforcement Learning for Autonomous Driving in Highly Dynamic Environment

- Conduct weekly seminar on Multiple Hypothesis Tracking (MHT) subjects such as Kalman Filter, Object Tracking, and Probability related techniques.
- Implement MHT techniques on Jetson for input (pedestrian trajectories) in Reinforcement Learning path planning model.

Equivariant Scene Graph Neural Network

- Extract node features from point cloud data using a simple point encoder.
- Incorporate bounding box coordinates as embedding coordinates and use point cloud distances as edge features.
- Apply E(3) equivariant model to update node features, embedding coordinates, and edge features.
- Perform node and edge classification to determine entity classification and relationships.
- Achieved improved convergence time, precision, and recall compared to state-of-the-art methods; submitted to **NeuRips 2024**.

VinUni MakerSpace Networks

Aug 21 – April 22

Co-Project Leader

- Led a team of 15 to establish a network of makerspaces, laboratories, and workshops on campus.
- Researched and authored user manuals and regulations for lab equipment, including 3D printers, vacuum forming machines, and laser cutters.
- Organized and facilitated workshops on lab equipment operation and regulations, with an average attendance of 20 students per session.

CERTIFICATES

Language Proficiency

- IELTS: 8.0 Overall

Academic

- SAT: 1530