

NAME

LE TAN DUUY

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EDUCATIONS

NGUYEN HUU HUAN HIGH SCHOOL

Class of 2021

- GPA: 9.2/10
- Head of the music club and physics club
- Assessed as a student with good moral character

INTERNATIONAL UNIVERSITY VNU-HCMC

School of Electrical Engineering

(2022- now, expected graduation 2026)

- Research Lab member of PLC and SCADA Laboratory
- Assist in the lecture design of the PLC lab course
- Model predictive control (MPC) based consensus for the three-phase system
- AI and Computational intelligence research

PUBLICATIONS

Conference

- T. M. Le, K. Wang, H. V. Pham, D. T. Le, H. M. Tran and S. V. T. Dao, "Fault Diagnosis of Fan Motors Using Multi-Domain Feature Extraction and Kolmogorov-Arnold Networks (KAN)," 2025 24th International Symposium on Communications and Information Technologies (ISCIT), Hanoi, Vietnam, 2025, pp. 186-191, doi: 10.1109/ISCIT67082.2025.11231610

RESEARCH INTEREST

- Large Language Mode (LLMs), Transformer Architectures, Natural Language Processing (NLP)
- Artificial Intelligence, Deep Learning, and Optimization
- Model Predictive Control

Project Experiences

Research Lab Member (PLC & SCADA Lab):

- Focus on Machine Learning and Consensus Research, optimizing AI models for industrial automation.

Motor Research & Data Acquisition - Control & Modeling:

- Designed a 3-phase induction motor plant and implemented Siemens S7-1500 PLC control.
- Data System: Developed a vibration measurement system to acquire high-fidelity datasets for fault diagnosis research.
- Implemented Transformer architecture to analyze motor current signals

UAV Fault Diagnosis (TabNet):

- Developed a TabNet-based deep learning model for structural health monitoring of UAV blades.

VLM Research:

- Collaborated on researching lightweight fine tuning (QLoRA) for Vision-Language Models in automated classification tasks.

Fruit-harvesting robot chassis

SKILLS

Languages:

Vietnamese (native), English

Technical:

- Languages: Python, C, MATLAB
- AI Framework: Pytorch, TensorFlow
- Embedded AI: NVIDIA Jetson, TensorRT, Raspberry Pi
- Automotive Control: TiaPortal program, HMI interface design, SCADA system design