

NGUYEN TRAN PHUONG

Prospective Electrical Engineering Student

Physics · Embedded Systems · Semiconductor Technology

Hanoi, Vietnam
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nguyentranphuong.com

EDUCATION

HUS High School for Gifted Students, VNU University of Science

Physics Specialized Class · Hanoi, Vietnam

- GPA: [add exact GPA] · SAT: [add score] · IELTS: [add score]
- Academic interests: Physics, Mathematics, Electrical Engineering, Embedded Systems, Semiconductor Engineering

SELECTED ENGINEERING PROJECT

MIMI — Smart Home AI Assistant | 2025–Present

Creator & Developer

- Designed and developed a Raspberry Pi 5–based intelligent home assistant integrating voice interaction, computer vision, environmental sensing, IoT, and home automation.
- Built a modular Python architecture connecting AI services, sensors, smart-home devices, and a MagicMirror interface.
- Integrated ESP32, MQTT, RF communication, environmental and presence sensors, and smart-home control.
- Improved system reliability through repeated real-world testing and iterative refinement.

Technologies: Raspberry Pi 5 · Python · ESP32 · MQTT · Edge AI · Computer Vision · IoT

Project: nguyentranphuong.com/projects/mimi/

RESEARCH EXPERIENCE

Electronics & Embedded Systems Research Internship |

Nov 2025 – May 2026

University of Transport and Communications · Hanoi

- Studied fundamental electronic circuits and embedded-system concepts.
- Explored how hardware, sensors, control components, and software work together in a programmable vehicle system.
- Assisted university students during system testing and experimental trial runs, observing vehicle behavior and operational issues.

LEADERSHIP & ACTIVITIES

Football

- Defender and midfielder; Gold Medal, School Football Tournament (2026).

Chess

- Second Place at School; member of the district team receiving Second Prize.

Seed of Hope · Volunteer | 2025–2026

- Supported activities for elderly residents at a nursing home in Hanoi.

ABN Community Project · Volunteer | 2025

- Participated in educational and community-support activities for primary school children in a mountainous area of Hoa Binh.

SELECTED ACHIEVEMENTS

Third Prize — Physics

City-level Excellent Student Competition · 2023

Encouragement Prize — Science

City-level Science Competition · 2023

[Mathematics Award]

[Add exact award name, level, and year]

TECHNICAL SKILLS

Programming

Python · [C/C++ if applicable]

Embedded & IoT

Raspberry Pi · ESP32 · MQTT · Sensors · RF Communication

AI & Computing

Edge AI · Computer Vision · AI-assisted development

Engineering

Electronic Circuits · Embedded Systems · System Integration · Testing

Tools

Linux · Git · [add verified tools]

INTERESTS

Semiconductor Engineering · Integrated Circuits · Embedded Systems · Intelligent Electronics · Edge AI

BEFORE EXPORTING

- Replace all [bracketed] placeholders.
- Verify award names and competition levels.
- Keep the final CV to one page.
- Export as cv-nguyen-tran-phuong.pdf.