

PHAN DUY KIEN

I'm a third-year student at HCMUTE. Currently, as an automation engineering student, I'm still cultivating specialized knowledge and honing my skills in embedded/software programming, robotics and artificial intelligent.



EDUCATION

- 2018-2021
Thong Nhat A High school,
Trang Bom District, Dong
Nai Province
- 2021-now
HCMC University of
Technology and Education,
Linh Chieu Ward, Thu Duc
District, HCM city

SKILLS

- Programming languages: C, Python
- Microprocessors: AVR, ESP
- Electrical softwares: Proteus, Altium Designer
- Mechanical softwares: Autodesk Inventor, Sketchup, Solidwork
- Proficient with Microsoft Office
- Photoshop & Video editing
- Language: English

INTERESTS

- Football, Chinese chess
- Playing video games
- Travelling
- Watching technology news
- Learning something new about computer
- Coding & Designing PCBs

WORK EXPERIENCES

2023 Building set of device and website to support blind children in learning Braille words following Vietnamese textbook

A website connects to a device that displays Braille characters on its surface, enabling blind children to feel, hear and touch them.

2022 Smart home (Automation and Control Engineering Technology major introducing project)

An IoT house can be controlled by a smartphone via Wifi.

Smart glasses for blind street vendors
This device detects Vietnam currency values using the TCS3200 Color Sensor and alerts about front obstacles with the Ultrasonic Sensor.

2021 Device of object recognition training and movement assistance for visually impaired, blind children

The Yolov3 network is integrated into Raspberry Pi 4 to detect objects and voice their names, while an Ultrasonic Sensor alerts about front obstacles.

Building a model about geography in Dong Nai Province

Simulating some remarkable scenic landscapes of Dong Nai Province, with a QR code on the model to access an informative website.

Sleeping improvement bolster

To assist sleeping difficulties people, a bolster with the function of combining Alpha and Beta Music, along with Citronella fragrance oil, is utilized.

WORK EXPERIENCES

2020 **Health assistance robot for elders, patients**

A robot is programmed to care for elders and patients, providing timely medication and essential sustenance such as food, water,... automatically.

Non-touching hand washing machine

This product was born in the midst of the Covid-19 pandemic, providing people with a non-touching solution to effectively wash their hands.

2019 **Smart bed for children under 12 months old**

Parents can monitor their child from a distance. All relevant parameters such as temperature, sleeping time,... are sent to the parent's phone.

Smart desk

This desk will alert users when they maintain incorrect posture while sitting.

CERTIFICATES

Third prize in Automatic Robot Creation - Sumo Robot (2023)

Honorable Mention in FEEE Robotics Contest - Endless Labyrinth (2023)

Participation in Animal Robot season 4 (2022)

Participation in FEEE Robotics - Flag Capturing Robot (2022)

Second prize in Vietnam Science and Engineering Fair (ViSEF) - National Merit Competition (2021)

Third prize in Creative competition for youth and children - Provincial Merit Competition (2021)

Special prize in Creative competition for youth and children - Provincial Merit Competition (2020)

Second prize in Vietnam Science and Engineering Fair (ViSEF) - Provincial Merit Competition (2019)

ACTIVITIES

Member of FHQ's HCMUTE Innovation and Application Club (2022-2023)

- Supervised members on different Projects and Contests of club.
- Supported president of club to organize Technology conferences, Technical contests.
- Coordinated with other clubs to organize annual events.

Member of Thong Nhat A High School's Science & Engineering Club (2019-2021)

- Researched & participated in science contests.
- Supported teacher & organized STEM events.

- **Top 30 project in Final Round - VNEXPRESS Creative Science Contest (2023)**

- **Semifinal Round in Vinfast F1 Race Contest - VinUniversity (2020)**

*"No Pain
No Gain"*



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