



TRAN VAN HUYNH

Embedded Engineer

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Gender: Male

Date of birth: 10/06/2001

Address: Nam Tu Liem – Ha Noi – Viet Nam

EDUCATION

09/2019 – 03/2023

Hanoi University of Science and Technology (HUST)

Majors: Mechatronics

Degree: Very good

(Co-author of a SIS international scientific paper):

“Applying Digital Twin and Multi-Adaptive Genetic Algorithms in Human–Robot Cooperative Assembly Optimization ” link: <https://doi.org/10.3390/app13074229>

SKILL

English	VSTEP B1
Development Environments	ArduinoIDE, PlatformIO, Esp-IDF, Stm32, Keil C. Altium, Proteus, FPGA Verilog
Programming language	Asembly, MATLAB, Python, C/C++, C#. Cmake, PowerShell, RTOS, Linux Kernel.
Protocol	I2C, SPI, UART, CAN, Modbus. WireGuard, HTTP, MQTT, Zigbee, Mesh, Bluetooth.

AWARDS

05/2022	Certificate CLUB STEM – NCKH – HN, Hanoi University of Science and Technology
06/2022	The 39th scientific research student conference, HUST Mobile Robot collects obstacle map by laser sensor
12/2022	First prize “ Siemens National 3D Design competition” by Vietbay company and Siemens Certificate to use NX software issued by Siemens.

WORK EXPERIENCE

SMART DIGITAL FACTORY - HUST

08/2022 – 12/2022	Intern AI: <ul style="list-style-type: none">▪ Research on the digital twin model applied in smart factory solutions.▪ Computational dynamics for NAO robot to automatically climb spiral staircase.▪ Building machine learning model to develop path finding algorithm for NAO.
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SAMSUNG DISPLAY VIETNAM

02/2023 – 08/2023	Engineer Machine Vision: <ul style="list-style-type: none">▪ Develop image processing algorithm based on Opencv Csharp library for Cognex Camera.▪ Design control interface for image processing system.▪ Test and calibration to ensure performance for machine vision system in production line.
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NATAES JSC

08/2023 – 09/2024	Engineer Embedded Software: <ul style="list-style-type: none">▪ Integrating Wireguard security protocol for IoT system connecting to Soracom Cloud.▪ Design and develop EVSE charger according to SAE J1772 standard using ESP32 central controller.▪ Develop mesh network for charging system in parking lot▪ Design WS2812 led matrix board layout.▪ Program driver and device-tree for event camera module on Raspberry Pi.
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