

HOANG DUC MINH TRIEU

Gender: Male

• Date of birth: 05/12/2000

Address : No. 18/251 Tran Hung Dao, An Luu, Kinh Mon, Hai Duong

Email: hoangducminhtrieu@gmail.com

• Phone: 0904 524 715



EDUCATION

Hanoi University of Science and Technology Ha Noi, Viet Nam
Mathematics and Informatics Engineer 08/2018 – 8/2023
GPA: 7.26/10

SKILL: Python, SQL, C/C++, CAPL, AI/ML, computer vision, image processing, data analysis, ETL, database design, MS Office and Teamwork.

WORK EXPERIENCE

Hanoi University of Science and Technology Ha Noi, Viet Nam
ComVis Lab – MICA Research Center 09/2021 – 09/2022
Achievements and Responsibilities

- **Researched and developed:** AI algorithms for image processing, including neural networks (CNNs, Bayesian networks), human motion prediction, and computer vision applications (YOLO, segmentation, classification, OCR, etc.).
- **Supported teaching:** digital image processing, guiding programming tasks (e.g., pixel-level operations, histogram equalization), and conducted data analysis, visualization, and predictive modeling using AI/ML techniques.

Simulation Model Center – Viettel High Tech Ha Noi, Viet Nam
Interns researching and developing artificial intelligence algorithms 05/2022–6/2023

- **3DR VTO:** Participated in developing a virtual fashion system for trying on costumes, including building the Head Swap module with evaluation metrics such as EP (0.022), SSIM (0.90), LPIPS (0.09), and PSNR (34.82) on test datasets (VoxCeleb2 and Viettel dataset). Achieved state-of-the-art results submitted to the scientific journal MENDEL JOURNAL Vol 29 No 2 (2023) and successfully deployed into a product. Additionally, authored reports and research papers documenting the development process and results.

Fushan Technology Vietnam - Foxconn Bac Ninh, Viet Nam
R&D Engineer 07/2023 – 09/2024

- **Google Project: Google Pixel 8, 8 Pro:** Reported and resolved testing issues, ensuring continuous improvement. Developed and optimized test stations for defect detection, screen analysis, and automation (EVT, DVT, PVT). Prepared testing processes from the NPI stage to mass production, addressing and resolving issues during development and manufacturing. Enhanced testing procedures to minimize errors and ensure product quality.

Managed and optimized test stations, including quicktest, sensors, speakers, mmWave, OTA, and AOI, with communication via protocols such as comport, UART, and RS232. Developed automated test scripts, defined limits, and created scenarios. Synthesized logs and data for analysis, performed SPC, and collaborated with engineers in Taiwan. Worked closely with QA, TE, and PE teams on testing procedures, provided workflow guidance, and contributed cross-functionally to implement process improvements and boost production efficiency.

VinFast Trading & Service Co., Ltd. Hai Phong, Viet Nam
High Voltage & Charging Validation Collaborator 10/2024 – Present

- **Charging:** Test and report the charging system from FRS versions on car models: VF3, VF34, VF5, VF6, VF7, VF8, VF9. Worked on test cases, regression of vehicle charging errors. Working with CANoe, monitor and analyze signals from the vehicle's ECU via CAN network. Program CAPL to analyze signals from LOG based on ISO 61851 standard.

ACHIEVEMENT

- **Publication:** Q1 article titled "A hybrid photorealistic architecture based on generating facial features and body reshaping for Virtual Try-on Applications" in Vol 29 No 2 (2023) MENDEL JOURNAL.
- **Winning:** The Creativity Award at the Student Research Conference 2023. Hanoi University of Science and Technology.