

HOANG DUC MINH TRIEU

Gender: Male

• Date of birth: 05/12/2000

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EDUCATION

Hanoi University of Science and Technology

Ha Noi, Viet Nam

Mathematics and Informatics Engineer

08/2018 – 8/2023

GPA: 7.26/10

WORK EXPERIENCE

Hanoi University of Science and Technology

ComVis Lab – MICA Research Center

Ha Noi, Viet Nam

Achievements and Responsibilities

09/2021 – 09/2022

- **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.

Skills

- **Technical:** Python, SQL, C/C++, CAPL, AI/ML, computer vision, image processing, Power BI, data analysis, ETL, and database design.

Simulation Model Center – Viettel High Tech

Ha Noi, Viet Nam

Interns researching and developing artificial intelligence algorithms

05/2022–6/2023

- **3DR VTO:** Having participated in the development of fashion product systems to try virtual costumes. Having built Head Swap module with evaluation metrics used as EP, SSIM, LPIPS, PSNR, achieving corresponding results of 0.022, 0.90, 0.09, 34.82 on the test dataset (VoxCeleb2) and Viettel dataset. The current results are the state of the art, submitted in the scientific journal Vol 29 No 2 (2023) MENDEL JOURNAL. Having been deployed into a product.

Fushan Technology Vietnam - Foxconn

Bac Ninh, Viet Nam

R&D Engineer

07/2023 – 09/2024

- **Google Project: Google Pixel 8, 8 Pro:** Specialized in developing and optimizing test stations for electronics, including Google Pixel 8/8 Pro, focusing on defect detection, screen analysis, and automation testing (EVT, DVT, PVT). Proficient in C++, Python, and protocols like UART/RS232 for scripting, data analysis, and error handling. Experienced in Computer Vision, AI, and Image Processing for visual inspection, defect classification, and QR code/barcode recognition. Collaborated globally to enhance production efficiency and ensure quality.

VinFast Trading & Service Co., Ltd.

Hai Phong, Viet Nam

High Voltage & Charging Validation Collaborator

10/2024 – Present

- **Charging:** Test 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.