

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

WORKEXPERIENCE

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.

Hanoi University of Science and Technology, ComVis Lab – MICA Research Center

Ha Noi, Viet Nam

Research assistant

09/2021 – 09/2022

- **Researching:** AI algorithms for image processing. Building neural networks, convolutional neural networks, and Bayesian neural networks. Predicting the direction of human motion and velocity based on the influence of social interactions and surrounding environments.

Teach assistant

- **Image processing:** Support teaching, preparing papers and grading digital image processing subject exercises. Instructing programming of pixel-level operations, histogram equalization, image segmentation, feature extraction from images, and other related techniques.

Fushan Technology Vietnam - Foxconn

Bac Ninh, Viet Nam

Test Engineer

07/2023 – 12/2023

- **Google Project: Google Pixel 8, 8 Pro:** As a software engineer, my role includes operating, maintaining and being responsible for product testing stations using cameras, such as stations that identify product defects or analyze screen colors, etc. Customize scripts, scenario automation tests. Develop and improve test stations, handle and analyze errors that occur during production, analyze LOGs and work with customers. Optimize and refine test stations to serve production.

Pegatron Viet Nam

Hai Phong, Viet Nam

R&D Engineer

04/2024 – Present

- **Application automatic NPI Test:** Cooperate with engineers in Taiwan and Suzhou to prepare and develop tools and software for product testing at NPI stage (EVT, DVT). Build stations such as quicktest, sensor, speaker, mmwave, OTA, provision, burn in. Write automatic test scripts, limits, scenarios. Synthesize LOG and data for analysis, perform SPC, GRR. Train relevant departments on testing procedures.

Develop Computer Vision, AI, Deep Learning, Image Processing Software for Visual Inspection, Product Defects, Classification, QRcode and Barcode, etc

Develop warehouse management software on computers and phones. Store and query data using SQL.

Software development for automated testing of hardware, software, control of test equipment: Testers and Fixtures for Performance Tests and specific algorithms for calibration through communication with sensors, cameras, PCs.

SKILLS

- **Programming languages:** Python, SQL, C/C++.
- **Language proficiency:** English, Aptis B1.
- **Proficient in AI models and Image processing techniques, Computer vision:** YOLO, Object Detection, Color recognition, Segmentation, Image Classification, Data Augmentation and recognition techniques: OCR.

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.