Pham Huy

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EDUCATION

FPT University   Hanoi, Vietnam
Bachelor of Computer Science   *2018 - 2023*
GPA: 7.2/10
Awarded direct admission with full tuition waiver and 40% living stipend

LANGUAGE

IELTS 6.5 (Academic)   2024

FEATURED PROJECTS

Prosthetic Arm for disabled people ([Project link](#))   Robotics, 3D Modeling & Printing
Independently developed a low-cost prosthetic arm to support individuals with bilateral upper limb loss. Developed a foot-controlled mechanism to reduce costs and simplify manufacturing while maintaining stable control.
Covered the entire development process, including 3D design and printing, mechanical assembly, circuit design, and control software development.
Implemented and pilot-tested the prosthetic arm with a group of local people with disabilities.

BGlasses - A.I glasses for assisting the visually impaired ([Project link](#))   Embedded, ML, 3D Modeling & Printing
Co-led the development of AI-powered smart glasses that assist visually impaired individuals with daily activities such as navigation, currency recognition, and object description.
Responsible for hardware development, including PCB design and 3D modeling. Directed technical strategy for the team.
Sponsored by: TamNguyenViet Foundation

BDoctor ([Project link](#))   TF, flask & PyQT
Built a desktop application using PyQt and TensorFlow to detect respiratory diseases from chest X-ray images during the COVID-19 pandemic.
Responsibilities included developing the desktop application and data storage system, collaborating with 105 Military Hospital for data collection and annotation, and implementing training and testing for segmentation models.
Sponsored by: AngelHack & Kisstartup Foundation

Viendongedu - Training and education management mobile application   React-native & Nodejs
Developed a cross-platform mobile app and backend for VienDong College to help students track academics and assist teachers in managing classes and attendance.
Independently built and deploy the mobile app and backend system; supported system deployment and collaborated with the UX/UI team.

WORKING EXPERIENCE

Full Stack Developer | Artzero Vietnam Limited Liability
Hanoi — Jun 2023 to Dec 2024

- **Ink Whale**: Built and maintained frontend/backend for a DeFi platform on Aleph Zero with staking, yield farming, and token launchpad features.
- Contributed to an NFT marketplace, Telegram MiniApp supporting the Web3 ecosystem and other projects.

Full Stack Developer | Microbox Limited Liability
Go Vap, HCMC — Dec 2021 to Feb 2023

- **LabelDrive**: Independently developed a mobile app for managing ML/AI data, image annotation, and team collaboration; integrated with µClorage infrastructure.
- **µClorage**: Built the frontend portal for µClorage, a cloud-based storage service supporting annotation pipelines.

Fullstack Developer (Intern) | FPT SMART CLOUD
Cau Giay, Hanoi — Aug 2021 to Dec 2021

- **Cloud Portal**: Contributed to the development of specific features for a cloud management portal on VMWare and OpenStack, deployed on FPT's modern data center infrastructure.

Automotive Developer (OJT) | FPT SOFTWARE
Nam Tu Liem, Hanoi — Jun 2019 to Jun 2020

- **AUTRON Project**: Self-learned AUTOSAR architecture specifications, analyzed requirements, designed architecture, and developed memory modules. Contributed to 30% of project progress in Phase 1.
- **AKAICF Project**: Self-learned multithreading in FreeRTOS and the basics of the Yocto Project. Independently researched and developed OSAL/NASA porting for FreeRTOS.

Achievements & Prizes

May 19, 2017	:	3rd prize at INTEL ISEF - International Science & Engineering fair
		Los Angeles, USA
		Project: **Prosthetic Arm for disabled people**
May 18, 2017	:	3rd prize IEEE Presidents' Scholarship
		Awarded at INTEL ISEF 2017, Los Angeles, USA
Mar 2017	:	1st Prize in Robotic and Intelligent Machines category & **Overall Grand Prize Winner** at Vietnam Science and Engineering Fair 2017
		Hanoi, Vietnam
Sep 1, 2017	:	Odon Vallet scholarship 2017
Mar 3, 2018	:	2017 Top Vietnam's 10 Outstanding Young Faces in Science and Education field
		By Central committee and Union and the Vietnam Promotion Fund

Other awards: 3rd Prize in Track A.I at Hackcovy Competition(Apr 2020 By AngelHack & UNDP & Hanoi Youth Union), Top 10 Excellence AI Project at 2020 Vietnamese Online Hakathon by GDG(May 2020), Top 2 of the best Machine Learning project of 2020 by Google & Tensorflow VN(Jan 2021), 2nd prize Markethon HCMC(Jan 2021), 2nd Prize EDTECH VIETNAM 2021by Vietnam NSSC(Jul 2021)

Activities

Co-Head Mentor at MASSP(Math and Science Summer Program)   2020 - 2021
MASSP is a summer program founded by Vietnamese alumni of MIT and Wellesley, connecting global university students with high school students in Vietnam and supporting underprivileged youth to develop independent thinking and scientific skills.
Contribution: Designed and taught the Aerospace Engineering curriculum, covering basic embedded systems, 3D design, and simulation.
Managed recruitment of program staff and mentees.

Viet Nam Steam challenge(Organizer team)   Jun 2020
Handled event organization and quality management of team robotics projects.

Techfest 2018(Da Nang)   Dec 2018
Showcased the prosthetic arm project at an annual national innovation and startup event organized by the Ministry of Science and Technology to connect entrepreneurs, investors, and policymakers.

Hackcovy Incubation Program   Jun 2020 – Sep 2020
By: AngelHack & UNDP & Kisstartup Foundation.

Technical Skills

C/C++, Java, Python, JavaScript, Flask, React.js, Node.js, React-Native, MongoDB, SQL, SQLite, QT, 3D Modeling & Printing, PCB design(Eagle), Experience in developing Embedded Systems and IoT applications