

Phung Hung Binh

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SUMMARY

I am an automation Engineer who's knowledgeable in both computer science and electrical engineering. Work effectively in the Robotics Design field of research. My recently work is Built a modelling and simulation Robot using Python/PyQt5 Framework. Dynamically adept at completing demanding projects within crucial timelines.

EDUCATION

HCMC University of Technology and Education

Thu Duc, Ho Chi Minh city

Control and Automation Engineering (GPA: 3.15/4.0)

09,2021

- University honor student Award in 2020-2021.
- Recipient of University Encourage Scholarships for top 10 highest GPA 2019-2021.
- Data Science Project: A High-Performance Nonlinear Neural Network on Speech Recognition module.
- Capstone Project: Designed and Operated six Degree of Freedoms Robotics model using speech command.

PROFESSIONAL EXPERIENCE

HCMC University of Technology and Education

Thu Duc, Ho Chi Minh city

Teaching Fellow for several courses

May 2019 - present

- Prepare syllabus and created course materials.
- Designed course lectures, maintained correspondence with under-graduate students.
- Organized Academic Competition: "Robot Fights 2020" for the University's students.

HCMUTE's Robotics Research Laboratory

HCMUTE, Ho Chi Minh city

Senior Research Assistant

May 2020 - present

- Create and maintain Robotics GUI using Python Programming for Controlling Robot model used.
- Prepare presentations, manuscripts, abstracts, and co-author for publication.
- Perform technical duties for theoretical studies in the field of Robotics Framework and standard Neural Network Modelling.

DAT DO's services and Commercial, LLC

Binh Duong Province, Viet Nam

Associate – Mechanical Engineering

May 2020 - present

- Measure dimensions of finished workpieces to ensure conformance to specifications, using precision measuring instruments, templates and fixtures.
- Maintain safe operations by adhering to safety procedures and regulations.
- Utilized CNC machinery to manufacture custom drill bits for wide variety of applications.

SKILLS & INTERESTS

Technical Skills:

- **Python/ PyQt5 module:** GUI Programmed for Robotics Modelling and Simulation.
- **Data visualization:** Collected and Examined Loss Function Data, Error and Learning Rate of ML model.
- **Linux, Raspbian Scripting:** Built an Embedded system using Raspberry Pi module.
- providing an understanding and application of **standard principles, theories, concepts and techniques** in Robotics.
- Proficiency in scripting languages **MATLAB** and **Python**.
- Proficiency with CAD: **Solidwork**.

Personal Interests: Avid reader, gymnastics, volunteering

CERTIFICATIONS

- Assistance to AIESEC youth-run organization to develop **Gender Equality** Project. August 2021 – Oct 2021
- Certificate of Formal Presenter of virtual conference ICSSE 2021. August 26-28, 2021
- Scientific Computing with Python Verified by FreeCodeCamp.org September 01, 2021
- Completed Fundamental skill in Python Program Certified by HackerRank. September 13, 2021
- Completed Digital Body Language Certified by LinkedIn Learning September 09, 2021
- completed the EF SET Certificate and has achieved C2 Proficient English level. September 27, 2021

PUBLICATIONS

Neural Network Research: P. H. Binh, P. V. Hoang and D. X. Ba, "A High-Performance Speech-Recognition Method Based on a Nonlinear Neural Network,"

Abstract: 2021 International Conference on System Science and Engineering (ICSSE), 2021, pp. 96-100, doi: 10.1109/ICSSE52999.2021.9537942.

COMMUNITY SERVICE

Gender Equality project by AIESEC organization at Ho Chi Minh City, Viet Nam: Contribute to project by being a Global Volunteer, Assisted in Viet Nam team of AIESEC.