

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) Huyen Nguyen Thi Ngoc

Address(es) 25 Block 12, General Department 5 Urban Area, Tan Trieu, Thanh Tri, Hanoi, Vietnam

Telephone(s) +842433547910 Mobile: +84356410509

E-mail huyen2wes@gmail.com

Nationality Vietnamese

Date of birth 28/ 09/ 1998

Gender Female

Career objective

Biomedical Engineering
With a focus on the field of bio-signal and biomedical image processing.

Education and training

September 2016 - Present Student
Study Bachelor of Biomedical Engineering The Advanced Program at Hanoi University of Science and Technology

- Engineering principles and design concepts with application in medicine and healthcare
- Research skills in electrical, electronics engineering with a focus on medicine and healthcare
- Undergraduate thesis: Processing and classifications of lung sound audios for lung diseases screening

-CPA: 3.64/4

Hanoi University of Science and Technology
1 Dai Co Viet, Bach Khoa, Hai Ba Trung, Hanoi, Vietnam

September 2020 – November 2020	<p>Trainee in data science</p> <ul style="list-style-type: none"> -10-week training on data science: data visualization, machine learning libraries, SQL <p>CoderSchool 12 Ton Dan Street, Ward 13, District 4, Ho Chi Minh city</p>
Relevant work experience	
March 2021- April 2021	<p>National Chung Cheng University Virtual Internship</p> <p>Intern topic of research: Evaluating the performance of YOLO algorithm on Vinbig data for the task of chest x-ray abnormalities detection</p>
October 2020 - December 2020	<p>Image processing coursework project in groups: Liver Segmentation</p> <ul style="list-style-type: none"> - Segmentation of liver and liver tumor using CT images and convolutional neural network (Unet)
May 2020 – September 2021	<p>Lung Sounds Classification With Machine Learning – Undergraduate Thesis</p> <ul style="list-style-type: none"> - Extract features from respiratory sounds to classify the sounds with and without traits of diseases - Signal processing, image processing and artificial intelligence for classification purposes of lung sounds
July 2019 – September 2019	<p>GRIESHMA Internship Indian Institute of Technology Madras (IITM) Chennai, Tamil Nadu, India</p> <ul style="list-style-type: none"> - GRIESHMA stands for: global research internship in engineering science humanities and management - Intern topic: Biosignal (electromyography signal) collection and classification
Other work experience	
November 2018 – May 2019	<p>Internship Ericsson Vietnam Company Limited Level 15, Landmark Tower 72 Building, Plot E6, Pham Hung Street Cau Giay New Urban, Me Tri, South Tu Liem District, Hanoi, Vietnam Intern in the “Woman in ICT Internship Program”</p>
September 2016 – May 2018	<p>Volunteer CTES University's Volunteering Club Hanoi University of Science and Technology Volunteering activities: “Green Dormitory”, “Iced tea for Community”, “Green summer”,...</p>
Academic Honors and Awards	
	<p>Graduate rank: 1/25 of Biomedical Engineering the Advanced Program Class 61</p> <p>Among the 30 students of Graduation Cohort 20202.A commended by university</p> <p>Hanoi university of Science and Technology Academic incentive scholarship</p> <p>First Prize on University's competition Best Project 2019</p> <ul style="list-style-type: none"> - Groups competing on a project whose topic proposed by judges - Topic of Best Project 2019: robotic design concepts and protocols for ball-grabbing robots

Publication

Vu Tran Anh, Tung Trinh Thanh, **Huyen Nguyen Thi Ngoc**, Hieu Tran Trung, Nguyen Phan Kien, Hoang Quang Huy, Pham Thi Viet Huong, **Lung sound classification using wavelet reconstructed sub-bands signal and machine learning**, in 1st Proc.of ICISN 2021, University of Transport Technology, Hanoi, Vietnam (2021); Lecture Notes in Networks and Systems, vol 243. Springer, Singapore. https://doi.org/10.1007/978-981-16-2094-2_27 (ISSN 978-981-16-2094-2).

Vu Tran Anh, **Huyen Nguyen Thi Ngoc**, Hoang Quang Huy, Pham Thi Viet Huong **Classification of lung sounds using scalogram representation of sound segments and convolutional neural network** (Accepted in Journal of Medical Engineering & Technology, SJR 0.29, Biomedical Engineering Q3)

Personal skills and competences

Mother tongue(s) **Vietnamese**

Other language(s) **English**

Self-assessment
European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Basic User	B2	Independent User	B1	Independent User	B1	Independent User	B1	Independent User

(*) *Common European Framework of Reference for Languages*

Language Proficiency

IELTS: 7.5
Reading: 8.5 Listening: 8.0 Writing: 6.5 Speaking: 6.5

Programming Language

Matlab, Python