PERSONAL INFORMATION

Thanh Dat Ngo

📍 145/51/1 Le Duc Tho Street, Go Vap District, Ho Chi Minh City, Vietnam

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Sex Male | Date of birth 05/04/1994 | Nationality Vietnamese

WORK EXPERIENCE

January 2017- Present

Assembly Process and Equipment Engineering at Intel Products Vietnam

Process and Equipment Engineering at Intel Products Vietnam, Ho Chi Minh City (Vietnam)

▪ Install, qualify and put into operation of equipment and process for Wire-Bond Department.

▪ Monitor equipment and process indicators to reduce process variability.

▪ Define maintenance procedures, training manufacturing technicians and partner with Manufacturing to maintain the equipment with the highest standards.

▪ Lead process improvements team in regards to safety, quality and efficiency in Wire-bond department.

EDUCATION AND TRAINING

March 2016 – September 2016

Thesis Title: Hardware-based Design of Dynamic Mel Frequency Cepstral Coefficient (MFCC)

Ho Chi Minh University of Technology, Ho Chi Minh City (Vietnam)

▪ Lead Dynamic ASIC-Based Mel Frequency Feature Extraction In Speech Recognition System project funded by Ministry of Science and Technology of Ho Chi Minh City, Vietnam.

▪ Developed VLSI architecture for dynamic MFCC to apply in automatic speech recognition (ASR) system for blind people.

▪ Integrated dynamic MFCC architecture into embedded board for Vietnamese Speech Recognition project for the blind in Vietnam.

August 2015 – March 2016

Capstone Project

Ho Chi Minh University of Technology, Ho Chi Minh City (Vietnam)

▪ Lead Dynamic Fast Fourier Transform algorithms for Vietnamese Speech Recognition project for the blind in Vietnam with iHearTech organization.

▪ Conducted experiments on 130nm technology to confirm the silicon performance of Dynamic Fast Fourier Transform architecture.

August 2012 – September 2016

Bachelor of Engineering

Ho Chi Minh University of Technology, Ho Chi Minh City (Vietnam)

▪ Major: Electrical and Electronics Engineering with CGPA of 7.63/10

PERSONAL SKILLS

Mother tongue(s)	Vietnamese

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	C1
International English Language Testing System - IELTS. Overall 7.5				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills	Strong verbal, written, and communication skills in English.
Organisational / managerial skills	Excellent organisational and prioritisation skills.
Computer skills	Matlab, Python (numpy, scipy), C/C++, Verilog, Shell scripting.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Other skills	Team - work skills and ability to work independently. Competent with statistical analysis software package.

ADDITIONAL INFORMATION

Publications

- Efficient Hardware Architecture for Dynamic FFT Based on Radix 2, National Conference on Electronics, Communications and Information Technology – (REV-ECIT), HCMC, 2015.

- Dynamic ASIC-Based Mel Frequency Feature Extraction in Speech Recognition System, International Conference on Advanced Computing and Applications (ACOMP), IEEE Computer Society, HCMC, 2016.

- Acoustic Scene Classification Using A Deeper Training Method for Convolution Neural Networks, The International Symposium on Electrical and Electronics Engineering (ISEE), IEEE Computer Society, HCMC, 2019.

Honours and awards

- Best presentation in community project in Pre-university program 2012-2013.
- Leader of OISP Ambassadors in year of 2013-2014.
- Excellent achievement in Union works and Youth movement in year of 2013-2014.
- Academic scholarship of top 5% in 1st semester 2013-2014.
- Academic scholarship of top 5% in 1st semester 2015-2016.