

PERSONAL DETAILS



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Sex male | Date of birth 05/11/1984 | Nationality Vietnamese

PERSONAL PROFILE

Although I am working as embedded engineer at Huu Hong company without using Artificial Intelligence (AI). However, when I worked as a teacher at Dongan Polytechnic, I have researched AI and applied it to recognize the sleeping status of the car driver. This was a topic which I got consolation prize from Binh Duong Union of Science and Technology Associations. Especially, I also got the third prize from them for Vietnamese recognition machine based on AMR Cortex-M4 MCU. The AI really attracted me when I graduated from HCM City University of Technology and Education, so doing Master's degree is my clever decision to help me improve the knowledge about AI. I read some books during the learning process and did some small project by using AI, such as: handwriting recognition, face recognition. Of course, to do these tasks, I have must studied a lot of algorithms about digital signal processing, image processing. When I was a student, I was an excellent member in the robot team. I was charge of programming for automatic robot and planning fighting for my team. Besides, I can use quite well some programming languages, such as: C/C++, C#, MATLAB.

JOB APPLIED FOR
POSITION
PERSONAL STATEMENTArtificial Intelligence (AI) Developer
Engineering

A highly motivated and hardworking individual, who has recently completed master degree, achieving excellent researching in embedded system. Seeking an apprenticeship in the engineering industry to build upon a keen scientific interest. Eventual career goal is to become a fully-qualified and experienced engineer, with the longer-term aspiration of moving into project management.

WORK EXPERIENCE

2017 – present

Embedded system engineer

Huu Hong Machinery Joint Stock Company (<http://www.huuhong.com.vn/>)

- Editing specification of project;
- Building flowchart and schedule;
- Programming and testing project: using Keil C for ARM with C language, building tool for testing by using C# combine with available system;
- Sending to customers and getting reply;
- Completing project;

- Discuss with foreigner partners to require them who design and make hardware;
- Customer service: support to set system, collect data, export data to billing.

2008 – 2017 Industrial Electronics Teacher

Dongan Polytechnic (<http://dongan.edu.vn/>)

- Compiling books: embedded system using PIC microcontroller and C language, power electronics, sensors, ...
- Teaching students who work at industrial parks;
- Researching science every year;
- Managing teachers in the team;
- Organizing active for students;

2007 – 2008 Embedded system engineer based on FPGA Microdesign

- Building flowchart and schedule;
- Programing and testing project;

EDUCATION AND TRAINING

2003 – 2008 Student in electronics at HCMC University of Technology and Education

- Excellent grades in programmed subjects and math;
- Main member of robocon team in two years;
- Like to play football;

2010 – 2012 Post-graduate student in electronics at HCMC University of Technology and Education

- Researching speech recognition system in Vietnamese using embedded system with ARM-Cortex M3;

PERSONAL SKILLS

Mother tongue(s) Vietnamese

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1

Communication skills

- good communication skills gained through my experience as an engineer of R&D room who discuss with foreigner partners

Organisational / managerial skills

- leadership (formerly responsible for a team of 7 people at Dongan polytechnic)

- Job-related skills**
- good at designing firmware (currently responsible for project of data collector that reads out data from electronic meter via GPRS/3G network)
 - good at programming application by using C# to be use to test other projects
 - good at using tools to simulate, for instance, Matlab, Labview, ...
 - good at using tools to design hardware, for example, OrCAD, Altium Disgner
 - have a quite good knowledge about neural network and digital signal processing

Digital skills

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

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained as an amateur photographer

Other skills

- training
- research

ADDITIONAL INFORMATION

From June 2016 to June 2017

Dongan Polytechnic

Project : Sleeping detection for driver

Position : Team Leader

Description : Soon alarm for the driver when he starts sleeping via a camera

Responsibilities:

- Using the main hardware is Intel Edison KIT which operates on Yocto Linux. This KIT can connect to the internet via wireless module, so it is very useful and easy to program or debug. It also has available some drivers, such as: camera driver, ..., we just plug and play;
- Building algorithm and testing hardware;
- Analysing data from many images of people;
- Implement the recognition model using OpenCV on Eclipse tool;
- Test the results and improve algorithm;

Hardware : Intel Edison compute module
 O/S : Yocto Linux, Windows
 Special software : Intel System Studio IoT Editor, Eclipse
 Languages : C
 Work Location : Binh Duong Province, Vietnam

From June 2015 to June 2016

Dongan Polytechnic

Project : Power Electronics System Training
 Position : Team Leader
 Description : Training students about Power Electronics

Responsibilities:

- Designing voltmeter, ammeter with wide range using PIC microcontroller;
- Designing one phase and three phases pure sine wave inverter using dsPIC microcontroller;
- Designing Solar system with MPPT algorithm;
- Editing document with many lessons;

Hardware : PIC 8 bit and dsPIC 16 bit microcontroller
 O/S :
 Special software : MPLAB XC8, XC16
 Languages : C
 Work Location : Binh Duong Province, Vietnam

From June 2014 to June 2015

Dongan Polytechnic

Project : Controlling devices using speech with ARM STM32F4xxx
 Position : Team Leader
 Description : Controlling lamps, fans, TV, ... by speech

Responsibilities:

- Hardware design to deploy the project
- Building algorithm and testing hardware
- Analysing data from recording speech of people
- Training system using Matlab to create database
- Implementing the recognition model using Hidden Markov Model in C/C++

Hardware : ARM 32 bit STM32F4xxx
 O/S : FreeRTOS
 Special software : KeilC for ARM, Matlab
 Languages : C/C++, Matlab
 Work Location : Binh Duong Province, Vietnam

From June 2013 to June 2014

Dongan Polytechnic

Project : Receiving data of Water meter using wireless method

Position : Team Leader

Description : Reading water meter via handheld with ultra power saving hardware

Responsibilities:

- Hardware design to deploy the project
- Building algorithm and testing hardware
- Analysing data to optimize energy
- Designing interface on handheld (PC) using Labview
- Receiving data from water meter every month using RF to reliable test

Hardware : MSP430FLxxx

O/S :

Special software : IAR Embedded Workbench for MSP430

Languages : C/C++

Work Location : Binh Duong Province, Vietnam

From 2008 to 2009

Dongan Polytechnic

Project : Microcontroller and FPGA KIT for training at Dongan Polytechnic

Position : Member

Description : KIT for training using PIC, 8051 families and FPGA platform

Responsibilities:

- Hardware design to deploy the project
- Building algorithm and testing hardware
- Editing documents

Hardware : PIC, dsPIC, 8051, FPGA Xilinx

O/S : Windows

Special software : ISE, ModelSim, MPLAB C18, MikroC Pro

Languages : C/C++, Verilog

Work Location : Binh Duong Province, Vietnam