NHA DO

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Education

University of California - Los Angeles (UCLA) **Sep. 2020 – Jan. 2023 (Expected)**
Bachelor of Science in Electrical Engineering

Award

Encouragement Scholarship **2013-2014**
Da Nang University of Science and Technology *Da Nang, Vietnam*

Experience

UCLA Speech Processing and Auditory Perception Lab **June 2021 – September 2021**
Undergraduate Research Assistant *Los Angeles, California*

- Filtering signals and Speech analysis.
- Training End-to-end model using Automatic Speech Recognition (ASR) with Transformer.
- Focusing on Children Speech Analysis.
- Mentored by a PhD student.

Projects

Plant Pathology - Machine Learning on Embedded System | *Python/ C - STM32 H743ZI2* **In Progress**

- Create a deep learning model to classify diseases in apple trees.
- Embed the weights of the pre-trained model into Microcontroller STM32 H743ZI2 board..
- Source of Dataset: Kaggle Competition

Spam Email Classification | *Python - Jupyter Notebook* **2021**

- Built a model to classify an email to be spam or non-spam based on Naiive Bayes Theorem.
- The accuracy of the model is 97%.
- Source of Dataset: Spam Assassin Public Corpus.

Pooling Filter | *Verilog* **2021**

- Designed and simulated a digital circuit that implements a common type of image filter known as a pooling filter (also known as a pooling layer).
- Reduce the size of an input image while keeping relevant features of the input and discarding irrelevant information, such as noise.
- Reading a 512x512 input image from a file, applies the implemented pooling function at each window position for each color channel, then writes the resulting 256x256 output image.

Line Following Car | *MSP 432, C++* **2020**

- Developed a line following car robot which follows the black line.
- Code was implemented by C++ using MSP432 TI-Launchpad.

Fire Warning Device | *Micro-controller 8051, C* **2016**

- Developed an electronic device using Micro-controller 8051, which can be used in the kitchen to assist user to control some environmental conditions.
- Measuring temperature, humidity, gas, current and displays on a LCD soldiered on the circuit.
- Alarm through a speaker when the temperature or gas concentration increases rapidly and passes the threshold.

Technical Skills

Programming: Python, C/C++, Matlab, Java
Open-source Framework: TensorFlow, OpenCV
Other Tools: Latex, Adobe Premiere Pro, Adobe Audition
Languages: Vietnamese, English

Research Interests and Objectives

- Signal Processing
- Machine Learning
- Deep Learning
- Data Analytics
- Speech Recognition
- Computer Vision

Other Activities and Relevant Information

UCLA ACM AI **10/2020 – 03/2021**

Member *UCLA*

Joined The International Marathon **2013 & 2014**

Da Nang, Vietnam