NHA DO

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Education

University of California, Los Angeles (UCLA) **09/2020 – 01/2023 (Expected)**
Bachelor of Science in Electrical Engineering *GPA: 3.631*

Coursework: Digital Signal Processing, Data Science & Machine Learning, Data Structure, Graph Theory, Analog Electronic Circuits, Logic Design of Digital Systems, Probability and Statistics

Award

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

Experience

UCLA Speech Processing and Auditory Perception Lab **06/2021 - 09/2021**
Undergraduate Research Assistant *Los Angeles, California*

- Trained an End-to-end model using Automatic Speech Recognition (ASR) with Transformer
- Filtered signals and analyzed data
- Collaborated and assisted Ph.D student to enhance the accuracy of the model

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

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
- Extracted words and calculated their probability
- Optimized the model by using Scikit-learn library
- Achieved the accuracy of 97%

Pooling Filter | *Verilog* **2021**

- Designed and simulated a pooling filter digital circuit
- Reduced the size of an input image while keeping relevant features of the input and discarding irrelevant information
- Read a 512x512 input image from a file, applied the implemented pooling function at each window position for each color channel, then wrote the resulting 256x256 output image

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

- Utilized MSP432 microcontroller to operate a line following car robot to follow designed curved path
- Coded 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
- Programmed to measure temperature, humidity, gas, current and displayed on a LCD soldiered on the circuit and alarm through a speaker when the temperature or gas concentration increases rapidly and passes the threshold

Technical Skills

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