

NHA DO

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EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science in Electrical Engineering

Sept. 2020 - Jan. 2023 (Expected)

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

TECHNICAL SKILLS

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

EXPERIENCE

UCLA Speech Processing and Auditory Perception Lab

Undergraduate Research Assistant

Jun. 2021 - Sept. 2021

Los Angeles, California

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

PROJECTS

Handwritten Digits Recognition | Python / C - STM32 H743ZI2

2021

- Created and trained a machine learning model to classify handwritten digits in Python.
- Designed and developed the Convolutional layer, Max pooling layer and Dense layer in C.
- Embedded the weights and biases of the pre-trained model into Microcontroller STM32 H743ZI2 board

Spam Email Classification | Python - Jupyter Notebook

2021

- Extracted words and calculated their probabilities based on Naïve Bayes Theorem
- 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 in Verilog
- Reduced the size of an input image while keeping relevant features of the input and discarding irrelevant information

Line Following Car | MSP 432, C++

2020

- Utilized MSP432 microcontroller to operate a line following car robot to follow designed curved path
- Completed a round trip in 9s for a track with 52 5/8 inches long and about 6 1/8 inches wide

Fire Warning Device | Micro-controller 8051, C

2016

- Developed an electronic device using Micro-controller 8051 to control some environmental conditions
- Programmed to measure temperature, humidity, gas, current and displayed on a LCD soldered on the circuit

AWARD

Encouragement Scholarship

Da Nang University of Science and Technology

2013-2014

Da Nang, Vietnam