

# 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

**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
- Optimize the Convolutional layer, Max pooling layer in C

**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*