

Phanitta Chomsinsap

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EDUCATION

University of California, Santa Barbara (UCSB)

Santa Barbara, CA

Bachelor of Science, Electrical Engineering

June 2018

Cumulative GPA: 3.84 | Major GPA: 3.78

Honors: Engineering Honors Program, Gilman Scholarship, Roger Wood Endowment Scholarship

COURSEWORK

Digital Image and Video Processing

Neural Networks and Deep Learning

COMPUTER SKILLS

Experience with MATLAB, Python (TensorFlow), C++, Arduino, Verilog, Linux, Microsoft Office

EXPERIENCE

Senior Capstone Project

Santa Barbara, CA

Team Member

Sep 2017 – Jun 2018

- Implemented a convolutional neural network in TensorFlow to classify images with arthroscopic surgical tools and achieved 85% accuracy.
- Utilized MATLAB and Python to process video/image data and perform data augmentation.
- Communicated project progress to team members and sponsors.
- Our team was selected to present at the Engineering Design Expo, 2018, at UCSB.

UC Education Abroad Program (UCEAP)

Sendai, Japan

Research Student

Apr 2017 – Aug 2017

- Simulated and modified commercial Radio Frequency Identification (RFID) tag design to optimize the read range between the RFID reader and the tag when placed inside the body.
- Analyzed the performance of an RFID tag through the Electromagnetic Simulation Software and actual experiments.
- Immersed in Japanese culture by taking Japanese language and culture courses, attending festival and club events, and traveling in Japan.

UCSB Electrical and Computer Engineering Department

Santa Barbara, CA

Undergraduate Assistant

Jan 2017 – March 2017

- Assisted students on Arduino-based projects and lecture inspired exercises that required the knowledge of but not limited to soldering, LEDs, shift registers, I2C, and transistors.

UCLA Wireless Health Institute

Los Angeles, CA

Research Intern

Jun 2016 – Aug 2016

- Conducted an 8-week research project on physical activity classification using 6-DOF inertial measurement units and Arduino microprocessor.
- Collected, analyzed and classified data using Python machine learning algorithms.
- Participated in lab presentations, conference, and poster symposium.

HONORS & AWARDS

Dean's Honors List

11 quarters

Tau Beta Pi (UCSB Engineering Honors Society)

2016 – Present

UCSB Engineering Writing Awards, Excellence Award, Team Design Proposal

2015-2016

UCSB Engineering Writing Awards, Excellence Award, Recommendation Report

2014-2015