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

RELEVANT 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