

Jade Dhangwattantotai

1139 Commonwealth Avenue, Apt # 44 Allston, MA 02134 • (+1) 857-272-6557 • E-Mail: jadedh@bu.edu

EDUCATION

Boston University College of Engineering, Boston, MA

May 2018 exp.

Bachelor of Science in Computer Engineering

TECHNICAL SKILLS

C++, C, Java, Verilog, MATLAB, Xilinx ISE, Android Studio, Assembly, HTML & CSS

Website: jadedhang.com

EXPERIENCE

Research Assistant VLSI Lab BU, under Professor Allyn Hubbard

Summer 2016 – present

- Test the acoustic properties of the stethoscope and help to eliminate environmental noises
- Assist in the development software using MATLAB to generate phase space graphs
- Research various heart conditions, their corresponding heart sounds, and current methods of machine analysis of heart sounds
- Help design and build recording device, test the EKG/PCG signals for clarity

RELATED PROJECTS

Undergraduate Research Opportunity Program (UROP) Abnormal Heart Activity Diagnosis using Phase Plane Generated from Electrocardiogram and Phonocardiogram Heart Signals

Fall - present

- The purpose of the project is to develop a prototype that collects and analyses heart signals with diagnostic algorithm to identify heart related issues
- Develop codes to read and display PCG phase plane
- Design the device so that the patient can wear it and transmit signals to the mini computer remotely.

“Pill Dispenser”

Spring 2016

- The device was designed to alert patients to take their meds and inform caretaker if the patient failed to do so.
- Programming with Arduino Uno to initiate device’s internal clock
- Design and construct electrical circuits to facilitate device

“Truss Analysis”

Spring 2016

- Design MATLAB program to analyze straw truss design
- Design a computational analysis code to determine the internal tensile force in each member and the support reaction forces.
- Constructed system of equilibrium equations and solution for the unknown forces

“Walk or T”

Spring 2016

- User-friendly Android application that helps the user decide whether he or she is better off walking or waiting for the T based on current location and final destination.
- Worked in a team of three to design and implement android application with JSON library to manipulate GPS data from MBTA’s API

LEADERSHIP AND ACTIVITIES

Fundraiser Chair, Theta Tau – Professional Engineering Fraternity

Fall 2016 - present

Event Manager (E-board), Boston University Thai Student Association

Fall 2015 – Summer 2016

LANGUAGES: English (Fluent), Thai (Native)

ADDITIONAL EXPERIENCE

Summer Intern Vibhavadi Hospital, Bangkok, Thailand

June – August 2014

- Worked under supervision of head nurse in general diagnosis department, coordinated and facilitated outpatients to departments within hospital
- Assisted staff with body fluid analysis in Hospital lab and worked with senior partner to managed data

Summer Intern Ramathibodi Teaching University Hospital, Bangkok, Thailand

June – August 2013

- Worked in the children’s department, Created database for data collection to enhance organization of patients’ information using excel.