Disha Mankodi

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Education

University of Connecticut, Storrs, CT
Bachelor of Science in Engineering, Biomedical Engineering — Spring 2019
Cumulative GPA: 3.93/4.00, Honors Program, Babbidge Scholar 2016, Dean's List (Fall 2015 – Fall 2018)
Concentration*:* Bio systems, Imaging, and Instrumentation

Professional Experience

Potentiometric Probes Fellowship, Farmington, CT
TIP Innovation Fellow — Summer 2018

- Designed an imaging system for wide-field fluorescence imaging that optimized speed, resolution and sensitivity and minimized cost
- Conducted experiments to compare and troubleshoot the mean signal and background voltages and time delays for possible detection systems
- Analyzed data using MATLAB's Image Acquisition Software and determined how to synchronize the externally triggered camera and single pixel detector outputs using a National Instruments DAQ board.

Science Club For Girls, Cambridge, MA — Summer 2017
Assistant Facilitation Intern

- Facilitated a 6-week summer program for inner city high school girls by leading seminars teaching different topics in STEM
- Led lunch and learn discussions about current STEM related problems and potential solutions
- Organized and managed an end of the summer showcase utilizing interpersonal and administrative skills

Academic Achievements

School of Engineering, University of Connecticut, Storrs, CT
Physiological Monitoring of Fatigue and Stress, Senior Design — Fall 2018- Present

- Designed protocol of human study to determine the effect of cognitive load on facial and vocal data acquired using iMotions software
- Statistically analyze webcam and microphone data using MATLAB and LabVIEW

Holistic Elderly Healthcare Monitoring System — Spring 2018

- Prototyped a device capable of monitoring a patient's heart rate, location, and sudden movement using SolidWorks
- Collected patient data using wearable and environmental sensors and analyzed data using the Arduino Uno serial plotter
- Collaborated with group members to learn the engineering design process throughout an entire academic semester

Effects of Cerebellar Deep Brain Stimulation on Parkinsonian Tremor — Fall 2017

- Researched and analyzed literature reviews relating to the effects of Parkinsonian tremor on neuronal circuits
- Conducted a computational study to determine whether deep brain stimulation of deep cerebellar nuclei will reduce the effects of Parkinsonian tremor via MATLAB
- Coded and debugged in MATLAB to accurately model the neural networks of the brain and quantify the results

Entrepreneurship Leadership Academy, Gyor, Hungary — Summer 2018

- Developed a prototype and business model for an innovation under the mentorship of Dr. Normal Gray in a week long program teaching the essentials of entrepreneurship
- Networked with Hungarian entrepreneurs and professionals to broaden my perspective of innovations related to healthcare
- Presented a pitch to panelists looking to invest in the product, practicing marketing and communication skills

Activities

Engineering Ambassadors*,* University of Connecticut, Storrs, CT — Fall 2016- Present
VP of On Campus Events

- Organize and lead events to spread interest of engineering fields to K-12 students using presentations and demos
- Correspond with teachers of Connecticut public schools, administration at UConn, and presentation team members to plan several field trips throughout the year
- Attend the Engineering Ambassadors Conference to learn presentation, communication, and networking skills

Quantitative Learning Center, University of Connecticut, Storrs, CT — Fall 2016 – Spring 2018
Student Tutor

- Assist college students enrolled in quantitative courses in grasping basic concepts of calculus
- Schedule and lead group tutoring sessions

Husky Hungama*,* University of Connecticut — Fall 2015 – Present

- Sing in a South Asian fusion a cappella group
- Organize and perform at various events on campus and at competitions hosted by other colleges across the country