

Ashank Behara

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN | JUNIOR STANDING: EXP. GRADUATION DECEMBER 2021

Bachelor of Science in Mechanical Engineering and Minor in Computer Science and (int.) Mathematics | Urbana, IL
GPA: 3.50 / 4.0

Coursework

Design for Manufacturability • Discrete Structures • Introductory CAD • Statics • Thermodynamics • Differential Equations • Introductory Computing (Matlab/Python) • Introductory Programming (Java)

Organizations

Hack4Impact • NeuroTech @ UIUC • American Society of Mechanical Engineers • Club Tennis • Club Ultimate Frisbee

EXPERIENCE

NEUROTECH @ UIUC | SEPTEMBER 2019 – PRESENT

Vice President | Urbana-Champaign, IL

- Conducting analysis of EEG data extrapolated from OpenBCI headsets using EEGLabs and Matlab
- Writing scripts in Python to classify data using standard machine learning algorithms; mainly K-means and KNN clustering

HACK4IMPACT | SEPTEMBER 2019 - PRESENT

Software Developer | Urbana-Champaign, IL

- Designing, developing, and deploying web and mobile applications and robust software for non-profit organizations
- Gaining practical programming skills in the front and backend using Flask, React, MongoDB, PostgreSQL, Shell, etc

DPQL LAB @ UNIVERSITY OF ILLINOIS | JUNE 2019 - PRESENT

Undergraduate Research Assistant | Urbana-Champaign, IL

- Performing data analysis in Matlab and Octave using data gathered from Vicon 3D motion capture system for FIND-Wheels study in Disability Participation and Quality of Life Research Laboratory
- Developing signal processing script for data synchronization using Matlab with gathered data from force plates, accelerometers, and Vicon

RAAD SYSTEMS | JUNE 2019 - AUGUST 2019

Mechanical Engineering and Robotics Intern | San Jose, CA

- Designed 6-axis robot using Autodesk Inventor with universal mounting interface for mobile robots
- Performed inertial, torque, and mechanical analysis for appropriate harmonic drive motor selection in Matlab

PROJECTS

GENUSIM | NOVEMBER 2019- NOVEMBER 2019

Winner of 2019 Autodesk Designathon

- Developed knee injury simulator and web app controller to simulate ligament injuries using Fusion 360 and HTML/CSS
- Presented to panel of judges and were declared first annual winner of the UIUC Autodesk Designathon

THERAPEUTIC TREMOR-ADAPTING CANE | AUGUST 2018 - DECEMBER 2018

Personal Group Project

- Designed and developed a self-stabilizing cane using CREO Parametric for people with severe tremors (Parkinson's)
- Created assembly model and individual part engineering-drawings, a Bill of Materials with appropriate manufacturing processes and materials, a variety of product design specifications, and tolerance analysis

SKILLS

LANGUAGES AND FRAMEWORKS

Java • Python • Flask • MatLab • Octave • React • Android • Latex • HTML • Unix • CSS • JavaScript

MODELING AND ANALYSIS

Creo Parametric • Autodesk Inventor • Fusion 360 • SolidWorks • APriori • Cura Lulzbot • Moldflow