Ashank Behara

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Portfolio: https://abehara2.github.io | LinkedIn Profile: http://linkedin.com/in/ashankbehara

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN | Junior Standing: Exp. Graduation May 2022
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

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, SQL, and Shell amongst a multitude of other languages and packages

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

UNIVERSITY OF PENNSYLVANIA | June 2017 – August 2017
Summer Research Intern at Kod*Lab | Philadelphia, PA
- Gathered data and ran energy optimization algorithms for a hexapedal robot
- Developed a Vicon motion capture system user guide and assisted with writing a data clustering program using Python

PROJECTS

DESIGN FOR RECYCLABILITY | April 2019- May 2019
Project for Design for Manufacturability
- Redesigned mechanical pencil for assembly efficiency and improved reprocessability
- Created full CAD model and Bill of Materials and performed a complete Design of Experiment and Assembly

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

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