

Ashank Behara

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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 • American Society of Mechanical Engineers • Club Tennis • Club Ultimate Frisbee

EXPERIENCE

HACK4IMPACT | SEPTEMBER 2019 - PRESENT

Software Developer | Urbana-Champaign, IL

- Designing and developing web and mobile applications and robust software for non-profit organizations
- Gaining practical programming skills in the front and backend using a multitude of 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

Java • Python • Flask • MatLab • Octave • React • Android • Latex • HTML • Unix • Spanish

SOFTWARE

Creo Parametric • Autodesk Inventor • Fusion 360 • SolidWorks • APriori • Cura Lulzbot (3D Printing) • Moldflow (Injection Molding) • Microsoft Excel