ASHANK BEHARA

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EDUCATION

University of Illinois (UIUC)
Aug. 2018 - Dec. 2021 3.50/4.00

B.S: Mechanical Engineering
Minor: Computer Science

SKILLS

CREO, Solidworks, Autodesk Inventor, APriori, Moldflow, Cura, Java, Python, Matlab, JS, Shell, Flask, React, HTML CSS, Android, Octave

PROJECTS

Carpool4UIUC
· Developed functional ride-sharing web application for UIUC students
· Used tech stack of React, Flask, and MongoDB
· Focused on frontend development and implementing Google OAuth

UIUC Wellness Interface
· Built Android application to centralize health and wellness information for UofI students
· Used Android studio and Java to develop the application with a partner

Genusim
· First place in UIUC Autodesk Designathon
· Developed knee injury simulator and web app controller to simulate ligament injuries using Fusion360 and HTML/CSS.

Tremor-Adapting Cane
· Designed a self-stabilizing cane using CREO Parametric for people with severe tremors
· Created CAD model, engineering drawings, BOM, PDS, and Pugh Matrix.

Redesign for Recyclability
· Redesigned mechanical pencil using CREO for improved assembly efficiency and recyclability
· Performed 2k factorial Design of Experiments and DFMA analysis

WORK EXPERIENCE

i-Made
Engineer **December 2019 - Present** *Urbana, IL*
· Collaborating with Carle Hospital physicians and UIUC faculty to design and prototype practical medical technology solutions
· Working on internal health-care projects and solutions for industry partners

Hack4Impact
Software Developer **September 2019 - Present** *Urbana, IL*
· Designing, developing, and deploying robust software and web applications for non-profits
· Gaining practical programming experience in frontend, backend, and full stack development using a wide variety of frameworks and packages such as Flask, React, MongoDB, PostgreSQL, and Shell

DPQL Laboratory
Undergrad Research Assistant **June 2019 - Present** *Urbana, IL*
· Undergraduate research assistant in Disability, Participation and Quality of Life Research Laboratory
· Working on Data Analysis and signal processing using Matlab/Octave with data generated from Vicon

Neurotech @ UIUC
Vice President **September 2019 - Present** *Urbana, IL*
· Writing scripts in Python to classify EEG data using machine learning algorithms (K-means)
· Serving as PM overseeing projects and their integration within teams as well as overall project progress.
· Managing and sourcing funding for OpenBCI equipment and community events

RAAD Systems
MechE / Robotics Intern **June 2019 - August 2019** *San Jose, CA*
· Redesigned cheaper model of UR10 6-axis robot using Autodesk Inventor
· Performed inertial, torque, and mechanics analysis in Matlab for appropriate motor selection
· Final design pushed to integration with controls and electronics and will be sold for profit for the company

COURSEWORK

Thermodynamics, Discrete Structures, Statics, Differential Equations, Fluid Dynamics, Dynamics, Intro Programming(Java), Intro Programming (Python/MatLab), Data Structures, Mechanics, Multivariable Calculus, Electricity and Magnetism