ASHANK BEHARA

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EDUCATION

University of Illinois at Urbana-Champaign August 2018 - May 2022 e
B.S. in Mechanical Engineering and Minor in Computer Science 3.50/4.00

WORK EXPERIENCE

Hack4Impact September 2019 - Present
Software Developer *Urbana, IL*

· Designing, developing, and deploying robust software and web applications for non-profit organizations
· 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 @ UIUC June 2019 - Present
Undergraduate Research Intern *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 September 2019 - Present
Vice President *Urbana, IL*

· Writing scripts in Python to classify EEG data using machine learning algorithms (K-means / KNN)
· 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 June 2019 - August 2019
Mechanical Engineering and Robotics Intern *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

PROJECTS

GenuSim
Developed knee injury simulator and web app controller to simulate ligament injuries using Fusion360 and HTML/CSS. Presented to panel of judges and were declared first winner of the UIUC Autodesk Designathon.

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

Design for Manufacturability
Redesigned mechanical pencil for improved recyclability and assembly efficiency by performing design of experiments and assembly for final project. Gained experience in rapid prototyping and other manufacturing processes.

SKILLS

Modeling and Analysis	CREO, Solidworks, Autodesk Inventor, APriori, Moldflow, Cura
Languages and Frameworks	Java, Python, Matlab, JS, Shell, Flask, React, HTML CSS, Latex, Android