

# ASHANK BEHARA

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## EDUCATION

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**University of Illinois at Urbana-Champaign** August 2018 - December 2021  
B.S. in Mechanical Engineering and Minor in Computer Science 3.50/4.00

### Coursework

Thermodynamics, Discrete Structures, Statics, Differential Equations, Calculus 3, Intro Programming(Java), Intro Programming(Python/MatLab), Data Structures (Summer 2020), Fluid Dynamics (Summer 2020)

## WORK EXPERIENCE

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**i-Made** December 2019 - Present  
*Engineer Urbana, IL*

- Collaborating with Carle Hospital physicians and UIUC faculty to design and prototype practical medical technology solutions
- Work on internal health care projects and solutions for industry partners

**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

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### GenuSim — Winner of UIUC Autodesk Designathon

Developed knee injury simulator and web app controller to simulate ligament injuries using Fusion360 and HTML/CSS. Presented to panel of judges and placed first place.

### 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

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**Modeling and Analysis**  
**Languages and Frameworks**

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