

# ASHANK BEHARA

119 Gilbert Avenue, Santa Clara, CA 95051 ◊ (669)-226-1554 ◊ abehara2@illinois.edu

**Website:** <https://abehara2.github.io>    **LinkedIn:** <http://linkedin.com/in/ashankbehara>

## EDUCATION

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### University of Illinois at Urbana-Champaign

August 2018 - May 2022

B.S. in Mechanical Engineering and Minor in Computer Science

3.50/4.00

## 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

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

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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