

## **ASHANK BEHARA**

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### **Dear Open Robotics:**

My name is Ashank Behara and I am applying for an engineering internship position at Open Robotics. After reviewing the requirements and description of the position, I believe that it requires a wide variety of skills coupled with motivation and determination- qualities I believe to possess.

Over the past few years I have been given multiple opportunities to further my knowledge and grow my technical skills. Throughout high school I competed in the FIRST Robotics Competition which gave me unique experience in mechanical design, manufacturing, and implementation of electromechanical systems into a fully functioning robot. During my first semester in college, I was able to directly apply my design knowledge to create a fully mechanical therapeutic cane that resists tremors from those with muscle degenerative diseases, such as Parkinson's alongside two of my close friends. <https://abehara2.github.io/index3.html>

Through these experiences, I was able to earn an intern position at RAAD Systems and a research position at UIUC. During my internship at RAAD, I was able to design a 6-axis robot and performed a full mechanics analysis in order to ensure functionality of the robot. This design was pushed to production by the company and will hopefully be sold commercially in the near future. As a part of my research study, I have developed my programming skills as I have been writing signal processing and data analysis scripts primarily in Matlab and Python. <https://abehara2.github.io/index4.html>

Recently, I have been accepted to the Hack4Impact chapter at my university where I have developed a ride share web application using a tech stack of React, Flask and MongoDB for UofI students. I will continue to develop software in different areas completing different projects over the coming semesters and years. <https://uiuc.hack4impact.org/projects/?name=academy>

On top of Hack4Impact, I have founded a NeuroTechX chapter at my university with some of my friends where we will use machine learning to classify EEG signals and apply them to practical projects.

In addition to my on-campus activities, I recently placed 1st with a team at a designathon sponsored by Autodesk. We competed against around 40 other undergraduate engineering students at my university and presented to a panel of esteemed judges in a dolphin tank format. For the competition, we designed and modeled a knee injury simulator using Fusion360. <https://abehara2.github.io/GenuSim.pdf>

Over the summer of 2020 I will be working at 3M as an intern in CRSL and hope to gain more experience in machine learning and robotics.

My hope is that through my past technical experiences I will be able to come to Open Robotics during the school year to grow myself and gain valuable industry experience. After reviewing my resume, I hope that you will see the learning potential and drive inside of me. Thank you for taking the time to review my application and I am looking forward to the possibility of becoming an intern.

Sincerely,

**Ashank Behara**