



## DHEEMANT JALLEPALLI

PROGRAM: M.S. BME - RESEARCH

HOME TOWN: DELHI, INDIA

### CONTACT

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### HOBBIES

Soccer, Hiking, City Breaks, Karaoke, Bar Hopping, Coding, E-Games, photography, building Legos, and yes trying boba teas across pittsburgh is a hobby!

### FACTS NEW STUDENTS MAY NOT KNOW ABOUT PITTSBURGH, CMU OR BME

A ton of free food and a ton of places to slack off peacefully. BME Departments famous coffee machine, just press that magical passcode and tryout the hot chocolate, the best hotchocolate in the world!! As CMU students we bond over MATLAB/Python Environment crashes, taking challenging courses, and still living the dream.

## LEARN ABOUT CMU BME AMBASSADORS FAVORITE THING ABOUT BME DEPARTMENT

The flexibility in coursework and strong emphasis on research is what drew me to the Biomedical Engineering department. I love that I can tailor my curriculum not only within BME but also across departments, which has helped me dive deeper into my passion for Neural Engineering. The professors are incredibly approachable and supportive, which makes it easy to seek mentorship and pursue ambitious research ideas.

## FAVORITE THING ABOUT CMU

The Cherry Blossom garden near the tennis courts during the first two weeks of April is magical. It's the perfect escape when things get overwhelming, just enjoy the serenity, calmness. It's a great reminder to breathe and enjoy the moment.

## WHY I PICKED CMU FOR MY GRAD STUDIES?

CMU's pioneering work in robotics and its interdisciplinary approach deeply inspired me. As someone passionate about merging neuroscience with engineering, I found CMU's culture of collaboration, both within and across departments. It's perfect for turning that vision into reality. Even the courses here are so project and Hands-on oriented that you would enjoy doing them. The research environment here is rigorous yet nurturing, and that balance is rare.

## LONG-TERM CAREER GOALS

My long-term goal is to pursue a Ph.D. in Neural Engineering or a closely related field, focusing on the intersection of neuroprosthetics and Exoskeletons. I aim to develop novel neurotechnologies that can restore or enhance motor function, particularly for individuals with spinal cord injuries, strokes, or neurodegenerative diseases.

After completing my Ph.D., I aspire to work as a research and development (R&D) engineer at an innovative neurotechnology company where I can help build better brain-machine interfaces, and open-loop neurostimulation systems. I hope to contribute to the ethical and accessible integration of these technologies into real-world healthcare systems. Eventually, I see myself mentoring the next generation of neuroengineers and possibly returning to academia to lead a research lab focused on inclusive, patient-centered neural technologies.