

Seeva Cherukuri

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Determined and enthusiastic engineering student pursuing a degree in Biomedical Engineering looking for a summer internship. Seeking to further develop my experiences in the field of biotechnology and health sciences.

EDUCATION

North Carolina State University & University of North Carolina at Chapel Hill **Expected May 2025**
B.S., Biomedical & Health Sciences Engineering | GPA: **4.0 / 4.0**

- Class Rank: **1 / 1839** in Engineering Program; **1 / 6664** in Junior Class; Dean's List all semesters
- Relevant Coursework: Computer Methods in Biomedical Engineering, Materials Science and Biomaterials, Design and Manufacturing in Biomedical Engineering, Organic Chemistry I

EMPLOYMENT

Nova Thin Film Pharmaceuticals **May 2023 - Present**

- Designed supporting parts using 3D design CAD software for Hot Melt Extrusion technology
- Lead programmer in the development of Ender 3-D Printer compatible G-code and firmware
- Executed the modeling, printing, and curing of supporting machine parts using 3-D Resin printing technology

Academic Success Center Peer Mentor **August 2022 - May 2023**

- Provided academic guidance to NCSU students 4-6 hours per week
- Supported students in creating and achieving academic goals

LEADERSHIP AND COMMUNITY INVOLVEMENT

MIT Hacking Medicine **May 2022**

- Led a team in the MIT Hacking Medicine Challenge and won second place
- Collaborated with healthcare providers and students from around the world
- Developed the prototype for a mobile app as a solution to fragmented medical data to allow for the transfer of medical data to hospitals through NFC technology
- Targeted the needs of stroke patients with comorbidities that require specialists in different locations
- Currently entering this app design in international healthcare competitions

Engineering Design Day **May 2022**

- Designed an educational computer game for children with the learning disability Dyscalculia
- Won first place against design teams in the class of 2025

EKTAA (South Asian Organization) **September 2021 - Present**

- Fundraising for international charities and promoting events to share South Asian culture

Women in Science and Engineering Student Council **October 2021 - Present**

- Acting as a Student Representative working with fellow council members to create inclusive events and promote wellness for students in WISE

iGem Competition Research **October 2021 - Present**

- Chosen for undergraduate research team sponsored by the NC State CRISPR Club
- Named as Head of Human Practices in experiment using CRISPR technology to reveal the link between gut bacteria and Alzheimer's Disease to compete in national iGEM competition
- Writing Neuroethical Report on ethics of gene editing
- Interviewing researchers, patients, caregivers, and physicians in the Alzheimer's realm to gain insight and perspective on the role of gene editing in future treatments of presently incurable diseases

SKILLS

Technical: MATLAB, SolidWorks, Microsoft Office Suite, 3D Printing Technology, Osteoblast Cell Culture Harvesting, Cryopreservation and Trypsinization of Cells
Professional: Leadership/Mentorship: Peer or Group Academic Tutoring in Calculus and Spanish