

Seeva Cherukuri

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Determined and enthusiastic engineering student pursuing a degree in Biomedical Engineering looking for a summer 2024 internship. Seeking to further develop my experiences in the field of biotechnology and medical devices.

Education

North Carolina State University

B.S., Biomedical Engineering, Minor in Nano-Science and Technology

Relevant Coursework: Computer Methods in Biomedical Engineering, Materials Science and Biomaterials, Design and Manufacturing in Biomedical Engineering, Organic Chemistry I, Biosensors and Microsystems, Bioinstrumentation

Expected May 2025

GPA: 4.0 / 4.0

University of North Carolina at Chapel Hill

B.S., Biomedical Engineering

Expected May 2025

GPA: 4.0 / 4.0

Employment

Nova Thin Film Pharmaceuticals *Engineering Intern*

May 2023 - Present

- Lead programmer in the development of a desktop app that generates G-code and firmware compatible with the Ender 3-D Printer
- Designed supporting parts using CAD software for Hot Melt Extrusion technology
- Executed the modeling and printing of supporting machine parts using 3-D Resin printing technology
- Created a wireless network used to 3D print on bluetooth technology using raspberry pi

Academic Success Center *Peer Mentor*

August 2022 - May 2023

- Provided academic guidance to NCSU students 4-6 hours per week for challenges such as time management, study scheduling and balancing academics and social activities
- Supported students in creating and achieving academic goals such as improving test-taking strategies, increasing grade point average, or reducing procrastination

Leadership and Community Involvement

International Genetically Engineered Machine (iGEM) Competition Research

October 2021 - Present

- 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 iGEM competition in Paris, France in November 2023
- Drafted Neuroethical Report on ethics of gene editing; Peer Reviewed by a Harvard Professor
- Interviewed 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

Women in Science and Engineering Student Council *President*

October 2021 - Present

- Facilitated inclusive events and promoted wellness and community service for students in WISE
- Led Diversity Discussions on the atmosphere around race in our university and ways we can improve on such
- Hosted Nutrition Panels where the university dietitian came to discuss student health and nutrition

Alpha Phi Omega National Fraternity *Alumni Chair*

January 2023 - Present

- Volunteered 50+ hours each year for local businesses and organizations around the local Raleigh community at the Boys and Girls Club, community gardens, Special Olympics, Boy Scouts, etc.
- Drafted and effectively communicated the monthly newsletter to be sent out to the alumni network of the Iota Lambda chapter informing them of the chapter's achievements in service to the community

MIT Hacking Medicine

May 2022

- Led a team to winning second place in the MIT Hacking Medicine Challenge and 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

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

Skills

MATLAB, SolidWorks, Microsoft Office Suite, 3D Printing Technology, Cell Culture Harvesting, Cryopreservation and Trypsinization of Cells, Printed Circuit Boards, Leadership/Mentoring, FUSION360, Soldering PCB, Arduino