

Neev Gupta

EDUCATION

University of North Carolina at Chapel Hill

May 2026

Bachelor of Science: Biomedical and Health Science Engineering

- Honors Carolina: Competitive four-year academic program enrolling 10% of each incoming class
- Accelerated Research Scholar: For students to engage in the field of research and inquiry-driven learning

Related Coursework: PHYS 118 Mechanics and Relativity, PHYS 119 Electromagnetism and Quanta, CHEM 102H General Descriptive Chem. II, CHEM 261 Introduction to Organic Chemistry I, BIOL 117 Considering Health Professions

RESEARCH EXPERIENCE

Bai Lab Undergraduate Research Assistant

Oct. 2022 – Present

UNC Bai Lab, Chapel Hill, NC

- Research nervous system stimulation using biodegradable microneedle patches
- Design prototypes with computer-aided design, test novel therapies, and demonstrate efficacy of solutions

RELATED EXPERIENCE

Job Shadow Nephrologist Dr. Puri

May 2021 – Aug 2022

Mercy Health, Fairfield, OH

- Conducted rounds with Dr. Puri, examining doctor-patient interactions during examination and diagnosis
- Researched medical etiologies and complications of kidney and urine conditions

Public Health Project Intern

Aug 2020 – May 2022

Leadership Initiative's Advanced Medical & Public Health Initiative, Mason, OH

- Co-led public health campaigns and community workshops in Bauchi-State, Nigeria for childrens' immunization
- Published research brief over Nigeria's historical cultural interactions with Western medicine

LEADERSHIP AND VOLUNTEER EXPERIENCE

President and Cabinet Member

May 2020 – April 2022

Spanish National Honor Society, Mason, OH

- Collaborate with community partners to increase knowledge of Hispanic culture among student body
- Led a cabinet of thirty members, organizing Hispanic social events and volunteer projects

Captain and Founder

May 2018 – April 2022

Parallax Robotics (FIRST Tech Challenge Team), Mason, OH

- Managed and coached a team of thirteen members through the engineering design process of robot creation
- Facilitated several STEM awareness community outreach efforts in underprivileged communities in Ohio
- Documented and demonstrated robot design through an Engineering Notebook and received national recognition (Inspire Award Finalist – Top 4 nationally) at the Detroit World Championship

Robotics Volunteer

June 2017 – Feb 2022

FIRST (For the Inspiration and Recognition of Science and Technology), Cincinnati, OH

- Introduced students and families to STEM programs; Encouraged cooperation and discovery
- Mentored ten robotics teams

CAMPUS INVOLVEMENT

Helping Hands (UNC Chapter)

- Research & Development and Design Team member
- Utilize innovative technologies to build useful prosthetic for children that are financially and medically in need
- Design and build individually tailored 3D printed prosthetics using OnShape (CAD Software)

Carolina Adapts Toys for Children (CATCH)

- Independently modify electronic toys weekly for children with special needs; trained to use soldering iron

Biomedical Devices Club

- Design and construct biomedical field devices and receive career development for biomedical engineering

SKILLS AND CERTIFICATIONS

Technology: CAD (OnShape & Solidworks), Google Workspace, Microsoft Office Suite, Adobe Photoshop, Canva

Project Management: Asana, Trello, AirTable

Certifications: CPR (2022), Stop the Bleed (2021)

Languages: Spanish (conversational)