

Evan Kiess

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EDUCATION

University of North Carolina at Chapel Hill & NC State University

Anticipated May 2027

B.S., Biomedical Engineering, GPA: 3.6

B.A., Hispanic Linguistics

PROJECTS

Tiny Tuner

May 2025 - Present

- Developed compact guitar tuner with ESP32 microcontroller and MEMS microphone
- Implemented FFT and YIN algorithm in Arduino framework for pitch detection

Smart Trash Can

Feb 2025 - Apr 2025

- Worked on RAM Robotics mechanical design team for our smart trash can
- Designed and manufactured the robot's frame and sorting mechanism using Fusion

WORK EXPERIENCE

Research Assistant

Jan 2025 - Present

Coherence Imaging Laboratory, Chapel Hill, NC

- Participate in novel OCT imaging research on PFAS effects on mammary cells
- Implement several noise-reduction and data analysis algorithms in MATLAB

Summer Intern

Jun 2023 - Aug 2023

Sosna & Huffstetler Law Offices, Rocky Mount, NC

- Drafted and edited petitions for Chapter 7 and 13 bankruptcies
- Migrated the locally-stored client database to a cloud-based system

Calculus Teaching Assistant

Aug 2022 - May 2023

North Carolina School of Science and Math, Durham, NC

- Tutored calculus students in 1-on-1 and group settings
- Created and adapted lesson plans to fit students' individual needs

Front Office Assistant

Jun 2022 - Aug 2022

Eastern Carolina Foot & Ankle Specialists, Greenville, NC

- Completed HIPAA compliance training
- Collected and verified insurance and medical history information

COMMUNITY INVOLVEMENT

RAM Robotics - Member

Jan 2025 - Present

- Develop smart trash can using AI-powered computer vision to increase recycling

Carolina Adapts Toys for Children (CATCH) - Member

Aug 2023 - Present

- Modify children's toys to increase accessibility for children with disabilities

UNC iGEM Competition Team - Website Developer

Jan 2024 - Jul 2024

- Participate in revolutionary PFAS research
- Synthesize dense, technical research into easily digestible information

SKILLS & RELEVANT COURSEWORK

Technical: Trained in HIPAA Compliance, Experienced in Programming, Data Analysis, and CAD

Professional: Time management, teamwork, leadership, communication, and organization

Coursework: Organic Chemistry 1, Differential Equations, Biomedical Electronics, Biomedical Mechanics

Languages: Professionally Proficient in Spanish