

Erin Kim

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Summary

Hard-working, creative biomedical engineering sophomore with a strong academic background, leadership qualities, and hands-on experience with a strong emphasis on communication.

Education

University of Massachusetts Amherst

Anticipated May 2026

Bachelor of Science in Biomedical Engineering, GPA: 3.62

Pursuing Computer Science Minor

Honors and Awards

Dean's List

2022-2023

National Merit Scholarship Finalist

2022

Skills

Python, Java, Fusion360, MATLAB, Microsoft Excel, PowerPoint, Word, Google Slides, Power Tools

Courses

Introduction to Bioengineering, Statics and Dynamics, Object-oriented Programming, Differential Equations

Projects

Biomaterials of Hemostatic Agents Research

Fall 2022

- Worked in a team of 6 and researched potential uses of a barnacle-inspired bioadhesive for wound recovery
- Investigated critical anti-microbial, quick-setting, and hemostatic properties of this bioadhesive
- Wrote report, created poster on findings, and presented at a symposium of professors and peers

Data Analysis of Biomedical Signals in MATLAB

Fall 2022

- Identified the uses of different types of biomedical signals such as ECG, EMG, and EEG
- Applied signal data acquisition and processing using data provided by Graduate research
- Analyzed the findings of Graduate research and refined produced graphs in MATLAB

Activities

UMass Amherst Science Olympiad - Director of Sponsorships and Finance

2020-2023

- Founding member/Board member of UMass Science Olympiad
- Grew membership to over 400 competing students and 22 schools from MA, NY, PA, CT, and VT
- Partnered with the College of Natural Sciences, College of Engineering, and local companies

Lexington High School - Biology Lab TA

2021-2022

- Independently prepared materials like solutions while using equipment like pipettes
- Cleaned used glassware and managed live planaria in between experiments
- Collaborated with advisor to develop coursework on utilizing PGLO plasmid for bacterial transmission

Work Experience

Tous Les Jours Bakery - Cashier and Barista

2021

- Worked in a pair to deliver quality service in a fast-paced environment
- Coordinated between bakers and customers for customized cakes and pastries
- Bookkept the daily inventory and revenue while preparing the bakery for closing