

Rebecca Gerola

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EDUCATION

Cornell University, Bachelor of Science, Mechanical Engineering

2023 – 2027 | Ithaca, New York

Relevant Course Work

- Statics and Mechanics of Solids, Thermodynamics, Mechanical Design, Dynamics, System Dynamics, Mechanics of Engineering Materials, Fluid Mechanics

EXPERIENCE

Cornell Nexus Project Team, Mechanical Subteam Member

Sep 2024 – present

- Collaborating with a multidisciplinary team to design and develop a solar-powered robotic system, engineered to autonomously filter microplastics, while navigating sandy beaches. We aim to create a practical solution for addressing microplastic pollution while promoting sustainable engineering practices.
- Utilize SolidWorks and various techniques to design and refine systems such as intake and filtration, while also fabricating components using lathes, mills, and bandsaws.
- Focus on working closely with a team of three to engineer an electrostatic filter optimized for the efficient separation of microplastics from sand.

DPR Construction, Project Engineer Intern

Jun 2025 – Aug 2025 | Dallas, Texas

- Supported construction activities on the \$150M Medical City Arlington tower expansion, focusing heavily on QA/QC of above-ceiling MEP systems and issue management in Autodesk Construction Cloud. Also drafted RFIs/submittals in BlueBeam, produced weekly owner reports, and aided progress tracking using DroneDeploy and Doxel imaging.
- Supported preconstruction efforts for the \$76M Medical City Plano vertical expansion, organizing ACC documentation, preparing RFIs/submittals, and contributing to BIM coordination with design teams and trade partners.
- Collaborated with trade partners, project engineers, and hospital administration to streamline communication, resolve field issues, and maintain project progress.

Society of Women Engineers, Elementary School Outreach Committee Member

Sep 2024 – May 2025

- Design and implement engaging, hands-on projects aimed at introducing local elementary students to STEM fields and fostering early interest in science and technology.
- Coordinate Cornell student volunteers to go and visit neighboring elementary schools and share our resources and knowledge
- Oversee SWENext K-12 initiatives and chapters at neighboring schools

Cornell University, Research and Learning Services Student Assistant

Sep 2024 – present

- Work alongside library staff at the Olin and Uris service desks, providing customer service by handling in-person inquiries and explaining library policies to patrons.
- Assist patrons with printing and troubleshooting printer problems, all while taking on various projects and tasks as needed.

LEADERSHIP

Caltech Solar Army Research Club, President

Aug 2021 – Jun 2023

- Collaborated with Caltech graduate students to design and develop microbial fuel cells for experiments focused on sustainable energy solutions
- Partnered with Caltech administrators to strategically plan and execute our annual conference, facilitating opportunities for students to present their research and engage with CalTech staff

FIRST Lego League Robotics, Head Mentor

Aug 2022 – Mar 2023

- Mentored elementary students in the programming and construction of a robot, guiding them through problem-solving and task management to ensure successful project completion.
- Led my team to the finals through strategic leadership, fostering collaboration and demonstrating patience and problem-solving skills.

SKILLS

Solidworks | Autodesk Fusion | Python | Bluebeam | Autodesk Construction Cloud | MATLAB