

Rebecca Gerola

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EDUCATION

Cornell University, *Bachelor of Science, Mechanical Engineering*

2023 – 2027 | Ithaca, New York

Relevant Course Work

2023 – Present

- 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