

Emily Gamez-Garcia

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EDUCATION

Cornell University, Ithaca, NY

Expected Graduation: Dec 2026

College of Engineering, Bachelor of Science, Mechanical Engineering

Relevant Courses: Advanced Product Design, Introduction to Mechanical Design, Mechatronics, Mechanics of Engineering Materials, Introduction to Computing using MATLAB, Data Science for Engineers

The North Carolina School of Science and Mathematics, Durham, NC

Aug 2020 - May 2022

Isaac Bear Early College High School, Wilmington, NC

Aug 2018 - May 2020

RELEVANT EXPERIENCE

Training Lead, Cornell Engineering Manufacturing Learning Studio

Aug 2024 - Present

- Instruct engineering project team and research students to use manual mill and lathe machines
- Enforce safety protocol, clean and repair equipment, and organize and stock supplies and tools

Process Engineering Intern, Corning Incorporated

May 2025 - Aug 2025

- Achieved \$180k annual cost reduction through design and assembly of benchtop measurement system for face gouges on ceramic filters and substrates
- Consulted stakeholders across different plants to confirm design requirements and criteria
- Collected and created sample parts to design and run a measurement system analysis
- Modeled a custom test block in SolidWorks to verify system inspection accuracy

Engine Crew Member, Cornell Engineering Learning Studios

Sep 2023 - May 2024

- Disassembled and cataloged parts of Toyota 15Z and Curtis R-600 Challenger engines to model in Fusion 360 to convert to augmented reality models for integration into the engineering curriculum

LEADERSHIP EXPERIENCE

Grader, Cornell ENGRI 1170 Intro to Mechanical Engineering

Aug 2025 - Present

- Timely grade homework and exams to deliver detailed feedback for a class of 60+ students
- Attend weekly meetings with professors and undergraduate staff to discuss homework and lab trends to determine learning gaps

Resident Advisor, Cornell Housing & Residential Life

Aug 2024 - Present

- Personally support and welcome 32 first-year residents through monthly programs, active communication, peer mediation, referrals to campus resources, and response to emergent situations
- Regularly submit official university incident, facility, and on-call reports

Treasurer and Secretary, Mecha de Cornell

Oct 2022 - Present

- Authorize all financial decisions, process reimbursements between club members and organizations, seek and apply to external funding grants for large-scale events
- Schedule weekly board meetings and update the agenda and calendar to reflect ongoing projects
- Develop a detailed filing system to access archived documents and store current expenditures, photos, and meeting notes

TECHNICAL SKILLS

Programs: SolidWorks, Fusion 360, MATLAB, Python, Microsoft Office
Manufacturing: Mill, Lathe