

# Emily Gamez-Garcia

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## EDUCATION

### Cornell University, Ithaca, NY

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

**Expected Graduation: Dec 2026**

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

Isaac Bear Early College High School, Wilmington, NC

**Aug 2020 - May 2022**

**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