

Ethan J. Moger

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EDUCATION

Cornell University College of Engineering

Major: Mechanical Engineering

Cumulative GPA: 4.225

Relevant Coursework: CS 1112, ENGRI 1170, MATH 1910/1920, PHYS 1112/1110

Ithaca, NY

Aug 2024 - May 2028

Queensbury Senior High School

NYS Advanced Regents Diploma with Honors, Seal of Distinction in Math & Science

International Baccalaureate Diploma

Class Rank: 1 / 241 | GPA: 99.320 / 100.000

Queensbury, NY

Sep 2020 - Jun 2024

WORK & RELEVANT EXPERIENCE

Cornell University Hyperloop Project Team

Mechanical Subteam Member; Magnetics

Ithaca, NY

Sep 2025 – Present

- Learn and utilize Ansys Maxwell to model, analyze, and create a linear induction motor to propel the levitating pod
- Support materials selection and structural analysis to achieve lightweight, durable, and high-speed performance
- Collaborate with cross-disciplinary teams to integrate mechanical systems with magnetic and control components

Yankee Boating Center

Dock Staff, Marina Rental Coordinator

Lake George, NY

Jun 2022 – Aug 2025

- Maintained a fleet of 40+ boats, taught renters how to operate boats, and drove rental boats onto trailers for service
- Promoted to inside staff the third year, oversaw phone inquiries, educated renters about the lake, and handled reservations
- Helped direct the dock staff and streamline operations using strong interpersonal and organizational skills

Glove Dryer Design & Provisional Patent

Member/Contributor

Queensbury, NY

Sep 2022 - Jun 2023

- Developed a soccer goalie glove-drying system through research and design with a focus on material preservation
- Designed and 3D printed the product in OnShape, incorporating feedback and advice from engineering professionals
- Presented the prototype to a panel of engineers and applied for and was granted a provisional patent

LEADERSHIP EXPERIENCE

Physics 1112 Learning Assistant

Undergraduate TA

Ithaca, NY

August 2025 - Present

- Facilitated collaborative problem-solving in discussion sessions to support peer learning in calculus-based physics
- Enhanced communication and teaching skills through weekly seminars on physics education theory and reflective practice
- Partnered with faculty to promote inclusive instruction and provide feedback to improve course delivery and engagement

Adirondack Solar Alliance

Co-Founder, Director of Web-Design and Technology

Queensbury, NY

Dec 2021 - Present

- Co-founded a not-for-profit organization that has raised over \$100,000 to install solar panels in Adjuntas, Puerto Rico
- Assembled and gave formal presentations to local businesses, securing financial support for past and future projects
- Developed the donation page, coordinated technology-related tasks for fundraising, and participated in the first installation

New York American Legion Boys State

Officer of Environmental Sustainability

Morrisville, NY

Jun 2023 - Jun 2023

- Selected through a competitive interview process to attend a leadership event focused on government and leadership
- Gained insights into governmental operations, decision-making processes, and leadership strategies during the event
- Elected as the Officer of Environmental Sustainability, responsible for promoting and learning about sustainable practices

AWARDS

President's Award for Educational Excellence

- Successfully completed the entire International Baccalaureate Diploma Program
- Outstanding growth, improvements, and commitment to intellectual development

Queensbury, NY

Sep 2022 - Jun 2023

RIT Science & Math Scholarship

- Achieved superior grades in science and math-related classes
- Pursuing college-level course work with an interest in using science and math in engineering

Queensbury, NY

Sep 2022 - Jun 2023

ACTIVITIES, SKILLS & INTERESTS

Activities: American Society of Mechanical Engineers, Doubles Pickleball League, Intramural Soccer (Captain)

Skills: Ansys Maxwell, OnShape, Python, Google Suite, Documentation, Microsoft Office, Collaboration, Problem Solving

Interests: 3D Printing/Design, Programming, Mountain Biking, Skiing, Pick-Up Soccer, Pickleball, Cliff Jumping, Piano