

Erik Salamanca

Ithaca, NY

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OBJECTIVE

Aspiring doctor with a strong foundation in math, physics, biology, and chemistry. Passionate about helping people in their worst moments and eager to apply my knowledge in real-world applications.

EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2027

Bachelor of Science, Mechanical Engineering

GPA: 3.774

VOLUNTEER EXPERIENCE

American Red Cross Club at Cornell, Ithaca, NY

August 2025 – Present

- Helped people through the process of blood donation

WORK EXPERIENCE

Undergraduate Researcher in Barbash Lab at Cornell, Ithaca, NY

October 2025 - Present

- Identifying meiotic drivers in drosophila
- Designed experiments to identify these drivers
- Made crosses and analyzed data from those crosses

PROJECTS

Tug N' Tick, Ithaca, NY

November 2022 – June 2023

- Presented in front of a panel of judges to secure \$250 dollars of funding
- Designed a functional prototype that was tested by users

Skeezy, Ithaca, NY

January 2025 – May 2025

- Designed a functional prototype

Code Red Robotics, Ithaca, NY

September 2019 – June 2023

- Designed a robot each year in six weeks to compete in a competition
- Place in semi-finals multiple years
- Was nominated for dean lists

RELEVANT COURSEWORK

- Organic Chemistry and General Chemistry 1&2, with lab
- Calculus 1-3
- Linear Algebra
- Differential Equations
- Physics Mechanics, Electromagnetics, Wave and Oscillations, and Quantum Mechanics
- Introductory Biology: Cell and Developmental Biology
- Fluid Mechanics
- Properties of Material
- Thermodynamics

SKILLS & INTERESTS

- Experience in Python, MATLAB, and Java for computation and graphical analysis
- Strong interest in politics especially in how it related to medical care and economics
- Designing and experimenting with products