

Sam Kuzmishin

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EDUCATION

Cornell University, College of Engineering

B.S. in Mechanical Engineering, Minor in Business

Ithaca, New York

Expected Graduation: May 2027

GPA: 3.18 | Relevant Coursework: Calculus II & III, Differential Equations, Linear Algebra, Statics & Mechanics of Solids, Dynamics, General Chemistry, Electromagnetism, Thermodynamics, Lasers & Photonics, Business Management

PROFESSIONAL EXPERIENCE

Aernnova Aerospace

Design Engineer Intern

Madrid, Spain

May 2025 - August 2025

- Worked with aerospace engineers to solve design problems and create parts for a variety of aircraft
- Utilized Catia CAD software to create components and track integration points for several aircraft subsystems
- Interpreted and extracted data from system drawings to track the state of an airliner undergoing retrofitting

University of Pittsburgh, Swanson School of Engineering

Research Assistant

Pittsburgh, Pennsylvania

May 2024 - August 2024

- Engaged with graduate students and professors to study and optimize the flow of intersections and roadways
- Collected data for a study spanning multiple universities funded by the National Department of Transportation to predict decisions drivers make at intersections, producing a safer and more efficient flow of traffic
- Assisted in the construction of a computer model enabling field workers to accurately estimate traffic quantities

Carnegie Mellon University, College of Engineering

Research Assistant

Pittsburgh, Pennsylvania

June 2023 - August 2023

- Collaborated with a graduate student to design and produce a computer mouse for the visually impaired
- Developed parts to given parameters using computer-aided design, learning about the rapid prototyping process

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Cornell Mars Rover

Drives Team Member

Ithaca, New York

February 2024 - Present

- Designed and built a cost and weight-efficient suspension and drives system to allow traversal of harsh terrain
- Utilized CAD software to rapidly model parts and analyze the functionality of systems via ANSYS
- Presented design proposals in rigorous peer review process and implemented beneficial suggestions
- Used machine shop to manufacture functional parts to predetermined specifications
- Competed in the annual University Rover Challenge in Utah to test team rover

Drive On Incorporated – Registered National 501(c)(3) Nonprofit Organization

Founder; Mechanic

Pittsburgh, Pennsylvania

February 2021 - Present

- Founded nonprofit dedicated to providing free and reliable transportation to those in need in the Pittsburgh area
- Raised over \$15,000 and received multiple car donations to be repaired and donated to the community
- Engaged with Pittsburgh nonprofits such as Veterans Place, a transitional housing service, and HEARTH, a women's shelter, to identify those in need of our services, connect with them, and provide free car repairs and maintenance

Cornell Consult Your Community – Registered National 501(c)(3) Nonprofit Organization

Project Manager

Ithaca, New York

September 2024 - Present

- Completed rigorous 10-week New Member Education series covering consulting frameworks, presenting case studies, creating PowerPoint decks, building Excel spreadsheets, and public speaking
- Manage a group of analysts to provide pro-bono consulting services to businesses in the Ithaca community
- Coordinate small business owners & executive board members to facilitate the creation of consulting deliverables

SKILLS AND INTERESTS

Skills: Fusion 360/Inventor(Proficient), Catia(Proficient), Python/Java(Proficient), Machine Learning(Basic Skills)

Interests: Traveling, Tennis, Running (Cross Country Captain), Car Repair, Weight Lifting, Photography, James & Rachel Levinson Camp Counselor