

Ezra Kahn

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

B.S. in Mechanical Engineering; Minor in Robotics; Technical GPA: 3.5/4.0

May 2028

Selected Coursework: Robotics Planning Techniques; Electronics for Sensing and Actuation; Manual Machining; Introduction to Human-Robot Interaction; Dynamics; Mechanics; Fluid Mechanics; Thermodynamics; Fundamentals of Computer Science; Independent Research in Robotics

TECHNICAL SKILLS

Programming: Python, MATLAB, C++

CAD & Mechanical Design: SolidWorks, Autodesk Fusion 360

Hardware: Arduino, IMUs, microcontrollers, sensors, actuators

Fabrication & Machining: 3D printing, waterjet cutting, manual machining, drill press, mill, lathe

Data & Tools: Excel (advanced), Word, PowerPoint

Languages: English (native), Mandarin Chinese (advanced)

EXPERIENCE

MetaMobility Lab — Undergraduate Mechanical Researcher

January 2026 – Present

- Designed compact electronics packaging for a distributed computing architecture connecting knee and hip exoskeleton platforms, integrating mechanical constraints, cable routing, serviceability, and wearable-system requirements
- Designed and fabricated a custom thigh bar with a prismatic-rail interface for a hip exoskeleton, reducing assembly weight, improving torque transfer, and adding an additional degree of freedom
- Developed a custom strap attachment to minimize motor motion during gait, balancing stiffness, comfort, adjustability, and manufacturability for wearable robotics hardware

New York Stem Cell Foundation — Engineering Intern

June 2023 – August 2023

- Designed an automated gas-pressure control prototype to replace manual regulators for critical stem-cell storage infrastructure
- Modeled components in SolidWorks, interpreted hardware datasheets, and implemented control logic for a functional prototype
- Supported digitized monitoring integration to improve visibility into pressure-control behavior and system status

Dogwood Brands PE — Software Engineering Associate

May 2025 – January 2026

- Automated daily Excel reporting across 60+ Supercuts locations using Python and AI-assisted tools
- Built a Python web scraper for real-time product comparison and contributed to backend systems and KPI reporting
- Designed an AI-powered HR chatbot to streamline recruitment workflows and improve candidate engagement

PROJECTS

Carnegie Mellon Racing — Structures Sub-team, Electrical Integration

October 2024 – Present

- Modeled battery-enclosure components in SolidWorks for an electric Formula SAE racecar, balancing structural packaging constraints with electrical integration needs

Adaptive Meal-Assist Robotic Arm — Personal Project

June 2026 – Present

- Designed a CAD assembly for an assistive feeding arm to support independent eating for elderly and disabled users; began 3D printing links and joints for prototype fit and assembly testing

Avenues Robotics Team — Mechanical Subteam Lead

2021 – 2024

- Led mechanical design, fabrication, and iteration for competition robots that qualified for world championships

ACE GNY — Architecture, Construction, Engineering

2022 – 2024

- Led group design and CAD modeling of a homeless-shelter concept in collaboration with engineers from Skanska USA

ACTIVITIES

American Society of Mechanical Engineers (ASME), Member

September 2024 – Present

YNG (Young Presidents' Organization Next Gen), Member

May 2023 – Present

Chelsea Piers Gymnastics, Level 10 Competitive Gymnast and Team Captain

2010 – 2024

Chelsea Piers Gymnastics, Gymnastics Coach

2022 – 2024

myFace Non-Profit, Volunteer

2018 – Present

Mannes Preparatory School Orchestra, Cellist

2015 – 2024