

Joseph Kunken

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Mechanical Engineering
GPA: 3.85

Expected May 2027

Relevant Courses: Statics and Mechanics of Solids, Thermodynamics, Physics II: Electromagnetism, Introduction to Mechanical Design, Dynamics, Introduction to Computing: An Engineering and Scientific Perspective

In Progress: Introductory Fluid Mechanics, Physics III: Oscillations, Waves, and Quantum Physics, System Dynamics, Mechanics of Engineering Materials, Electric-Drive Vehicle Engineering

EXPERIENCE

Everson Tesla Incorporated, Nazareth, PA, *Mechanical/Electrical Engineer Intern*

Jun 2025 - Aug 2025

- Designed 3D models and technical drawings in SolidWorks for tooling applications including coil winding and stress testing
- Diagnosed and repaired complex manufacturing machinery that had been non-functional for months despite prior repair efforts, restoring critical equipment and improving production throughput
- Developed automation software in Visual Basic 6.0 for magnet testing with a Coordinate Mapping Machine (CMM), significantly increasing efficiency
- Assisted with manual magnet bending and testing processes

CUSail Project Team, Cornell University, *Mechanical Subteam Member*

Feb 2025 - Present

- Installed various components to the boat including cleats, rubber lining, and carbon fiber coating
- Contributed to sailboat design and testing; team placed 1st in the 2025 SailBot International Regatta

"Crutch Buddy" Product, Cornell University, Ithaca, NY

Feb 2025 - May 2025

- Collaborated on the design and manufacturing of an assistive device for crutches using Fusion360
- Conducted cost optimization and material selection for consumer application

Taekwondo Instructor, High Performance Martial Arts, Rockville Centre, NY

Dec 2021 - Jan 2024

- Led classes for 4–24 students, supporting curriculum development and instruction across all age groups

Leadership & Activities

- Support my quadriplegic father with his activities of daily living
- Taekwondo Volunteer Instructor and Junior Instructor
- Taekwondo Volunteer Tournament Judge
- Team Captain, High School Varsity Bowling Team
- Taekwondo Second Degree Black Belt

(ongoing)

2018 - 2021

2021 - 2024

2021 - 2023

2022

Technical Skills: SolidWorks, Fusion360, AutoCAD, Python, MATLAB, Visual Basic 6.0

Languages: French (Conversational Proficiency)