

Joseph Kunken

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EDUCATION

Cornell University, Ithaca, NY
Bachelor of Science, Mechanical Engineering, Expected Graduation: May 2027
3.98 GPA

Relevant Courses

- | | |
|--|-----------------------|
| • Statics and Mechanics of Solids | Fall 2024 |
| • Thermodynamics | Fall 2024 |
| • Physics II: Electromagnetism | Fall 2024 |
| • Introduction to Mechanical Engineering | Fall 2024 |
| • Introduction to Mechanical Design | Spring 2025 (ongoing) |
| • Dynamics | Spring 2025 (ongoing) |
| • Introduction to Computing: An Engineering and Scientific Perspective | Spring 2025 (ongoing) |

Leadership

- | | |
|--|-------------|
| • Support my quadriplegic father with his activities of daily living | |
| • Assisted as a volunteer Taekwondo assistant instructor and junior instructor | 2018 - 2021 |
| • Served as a volunteer judge in local Taekwondo tournaments | 2021 - 2024 |
| • Led high school varsity bowling team as team captain | 2021 - 2023 |
| • Obtained a second degree black belt in Taekwondo | 2022 |

Experience

Mechanical Subteam Member CUSail, Cornell University, Ithaca, NY Feb 2025 - Present

- Working alongside 30+ fellow members to design and build an autonomous sailboat to compete in the SailBot International Robotic Sailboat Regatta
- Designing boat hull using SolidWorks
- Coordinated with other teams and 30+ members

“Crutch Clamp” Product

Feb 2025 - Present

- Working with a team of 5 others to produce a product to support a pair of crutches when not in use, particularly fixed to a table, with the aim of consumer use
- Designing product using Fusion360
- Involves cost optimization given a limited budget for materials

Publicity Chair Language Expansion Program, Ithaca, NY

Apr 2024 - Jan 2025

- Managed social media and public relations
- Coordinated program organization with other board members

Taekwondo Instructor High Performance Martial Arts, Rockville Centre, NY

Dec 2021 - Jan 2024

- Led martial arts classes of 4-24 students including all age ranges
- Worked alongside other instructors to lead classes and organize lesson plans

Technical Skills: AutoCAD, Fusion360, SolidWorks, MATLAB, Python

Additional Skills: French