

OWEN WEISENBERGER

ojweisen@syr.edu • +1781-9758237 • <https://www.linkedin.com/in/owenweisenberger/>

EDUCATION:

Syracuse University, College of Engineering and Computer Science
Bachelor's degree in aerospace engineering, Minor in Physics
Study abroad at Syracuse University in Florence, Italy

Anticipated May 2026
GPA: 3.4

SKILLS:

SolidWorks:

Spring 2023

- ❖ Projections and intersections of surfaces, dimensioning and tolerancing, different solid and surface modeling techniques, use of a computer-aided design system, and design problems used to design and tolerance various objects.

Aerodynamics:

Spring 2025

- ❖ Vorticity, circulation, potential flow and superposition of flows. Lift, drag, moments of two- and three-dimensional wings. Thin airfoil theories. Panel methods. Lifting-line theory. Flow separation and stall. Viscous drag reduction.
- ❖ Created a MATLAB code that allowed the calculation of lift and drag coefficients of a NACA wing with source panel and vortex method.

Design/Analysis of Aerospace Structures:

Spring 2025

- ❖ Structural configuration of modern aircraft and spacecraft. Vehicle design requirements. Symmetrical and unsymmetrical beams. Single and multicell thin-walled tubes. Skin-stringer construction. Shear flow. Shear lag. Ring, frame, and fuselage analysis. Finite element analysis.
- ❖ Design projects included minimizing the weight for a wing spar under various loads/cycles and designing an idealized space shuttle orbiter upper thrust structure.

Engineering Analysis:

Fall 2024

- ❖ Analytical and numerical methods of engineering problem solving. Linear algebra, ordinary and partial differential equations.
- ❖ Applications include vibration theory, column buckling, steady and unsteady heat transfer, subsonic and supersonic potential flows, wave propagation in rods.

Mars Rover:

Fall 2022

- ❖ Designed small rovers programmed to remotely retrieve "Mars rocks" (golf balls) and deploy a scientific instrument on a terrain.
- ❖ Team took budget for parts (Legos), time for assembly, and programming into account when designing.

WORK EXPERIENCE:

Member Service Representative, Elite Health and Fitness, Stoughton, MA

June 2022 - Present

- ❖ Maintain an atmosphere where all co-workers, members, and guests feel welcomed
- ❖ Know club facility, services, schedules, and maintain a clean and organized work area
- ❖ Always facilitate all member requests professionally

Changeover Crew, Syracuse University, Syracuse, NY

August 2022 - Present

- ❖ Organized and set up events such as basketball courts and concert stages, requiring thousands of components to be organized, cleaned, and laid out
- ❖ Teamed together with coworkers to finish task in an efficient manner

Substitute Teacher, Stoughton Public Schools, Stoughton, MA

May 2024 - June 2024

- ❖ Follow the teacher's lesson plan or create one if needed
- ❖ Create a report for the teacher that includes student attendance, and lesson plan progress
- ❖ Maintain discipline and a safe learning environment, record attendance, and assign homework

EXTRA CURRICULAR ACTIVITIES:

Esports:

- ❖ Practice 10 hr./week
- ❖ Develop and implement training programs to improve player performance, analyze game footage to identify areas for improvement
- ❖ Create game plans and strategies for competitive matches, and providing feedback and guidance for teammates

Brand Ambassador for SoSickSupplements:

- ❖ Promote company products, educate customers, and increase brand awareness
- ❖ Create social media content, track customer preferences, and assist in arranging marketing events

Sports:

- ❖ High School Varsity baseball
- ❖ University Club flag football