Joseph Lodato

Cell: (207) 481-2535 **Email:** jalodato@syr.edu **Website:** https://josephlodato.github.io/

Education:

Syracuse University, College of Engineering Anticipated Graduation May 2026
Bachelor of Science: Computer Engineering **Minor:** Physics
Cumulative GPA: 3.620 / **Spring 2024 GPA**: 3.745

Relevant Courses:

VLSI design * Computer Architecture * Microcontroller Laboratory * Object Oriented C++
Computational Physics * Data Structures * Fund. Of Electrical Linear Systems * Digital Logic Design
Calculus 1 and 2 * Discrete Mathematics * Linear Algebra * Probability & Statistics

Projects:

Formula SAE - Citrus Racing

- Integral in the design, construction, and racing of fully custom open-wheeled single-seat race cars for the Formula SAE series representing Syracuse University at annual competitions.

Personal Website:

- Created a personal website to highlight projects/hobbies. Hosted using GitHub Pages.

Celestial Vail - Highly Physically Accurate Programming:

- Created physically accurate orbits using N-body Physics in C# as part of a video game I am developing.

Leadership:

President – Citrus Racing May 2024 – Present

- Managed $25,000 team budget for vehicle development and collegiate competition.
- Collaborated with the University for financial oversight.
- Identified and secured sponsors for funding and support, both monetary and technical.
- Organized efforts across multiple sub teams allowing efficient design and construction.

Head of Electronics and Programming – Citrus Racing October 2022 - Present

- Team leadership designing, testing, and implementing all electrical components needed to run and race Syracuse University's Formula SAE racecar.
- Designed and built a fully custom car wiring harnesses and engine control software.
- Used various software systems such as Motec M1 Tune, M1 Build, and Rapid Harness to design and improve electrical control systems for performance optimization of the car.
- Worked with other team leads to analyze recorded test data resulting in improved car design.

Skills:

Software: Google and Microsoft Suite, Git/GitHub, Rapid Harness, Fusion360, All Motec Software
Programming languages: C/C++/C#, Java, Experience with Python and Assembly/Machine Code
Operating Systems: Windows 8.1/10/11, Linux/UNIX

Work Experience:

- Strouts Point Wharf Company - Dock Staff: Oversaw and led a team of ~8 other dock staff while performing typical duties, such as assisting customers.
- Freeport High School - IT Coordinator: Prepared and deployed over 250 devices (including iPads and Chromebooks) to 4 different nearby schools.

Honors:

College of Engineering Deans list: Fall 2022, Spring 2023, Fall 2023 and Spring 2024