

Justin Yocum

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Education:

- **Embry-Riddle Aeronautical University** (Daytona Beach, Florida)
 - Bachelor of Science in Aerospace Engineering
 - Area of Concentration: Astronautics
 - Junior
 - 3.913 GPA
 - Dean's List
 - Member of the Honors Program
 - Expected Graduation Date: Spring 2026

Project Experience:

Autonomous Maritime Robotics Association

Fall 2022-Present

MateROV: Currently working with a team to design and build a remotely operated submarine to compete in the MateROV competition. I designed and modeled the thruster mounts for the sub in Autodesk Inventor and am currently working on designing a robotic arm.

ERAU Endurance Eagles

Fall 2022-Present

Mazda Miata: Currently working with a team to modify a Mazda Miata for endurance racing, which requires the car to race for upwards of fourteen hours at a time.

MATLAB Class Project

Spring 2023

Drag Racing Performance Logger: Created a program that analyzes user-input data to help predict the outcomes of drag races. I programmed this using MATLAB.

Launch Vehicle Project

Spring 2023

Launch Vehicle: Led a group of three to design a hypothetical launch vehicle with much emphasis on teamwork and collaboration. Along with a focus on the engineering process and time management.

CATIA Class Project

Fall 2022

Bear Proof Trashcan: Worked with a partner to design a trashcan that could be used in parks to prevent bears from getting into the trash. We then modeled the trashcan in CATIA utilizing a variety of tools and workbenches.

Work Experience:

- **Data Entry:** *Ellwood Quality Steels* **Summer 2023**
 - Entered and organized customer specification sheets into a database.
 - Calculated the amount of money spent on expedited materials testing.
 - Entered the melt schedule into the plant's system.
- **Shop Assistant:** *Austintown Fence Company* **Summers 2018-2022**
 - Organized equipment, materials, and stock.
 - Assisted in the installation and repair of fences.
 - Conducted maintenance and repairs on equipment and machinery.

Technical Skills:

- CATIA V5
- Autodesk Inventor
- MATLAB
- Microsoft Excel
- Engineering Drawing

Involvement and Leadership:

- ERAU Autonomous Maritime Robotics Association (2022-Present), *Safety Officer* (2024-Present)
- ERAU Swim Club (2022-Present), *President* (2024-Present), *Vice President* (2023-2024), *Secretary/Historian* (2022-2023)
- ERAU Endurance Eagle (2022-Present)
- Race in International Hot Rod Association's Modified Class (2021-present)