

# Graysen Brinkman

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## SUMMARY

Aerospace Engineering student skilled in design, programming, and experimental testing. Proven ability to use data analysis and physical testing to ensure build quality. Seeking a Summer 2026 internship to apply technical precision and quality verification.

## EDUCATION

### Bachelor of Science, Aerospace Engineering

Embry-Riddle Aeronautical University  
Aeronautics Track

Daytona Beach, FL  
Dec 2027  
GPA: 4.0/4.0

### Associate in Arts

South Puget Sound Community College

Olympia, WA  
Jun 2024  
GPA: 4.0/4.0

## TECHNICAL SKILLS

**Software and tools:** MATLAB, CATIA, ROS2, PX4, LaTeX

**Engineering Practices:** UAV Systems integration, composite manufacturing & inspection, experimental testing, technical documentation, troubleshooting

## PROJECTS AND INVOLVEMENT

### Offboard Control and PX4 Integration – AIRHOUND Project, Engineering Physics Propulsion Lab

Aug 2025 – Apr 2026

- Integrated PX4 middleware and executed hardware troubleshooting to establish reliable offboard/onboard UAV flight control.
- Performed hands-on testing to identify and fix performance issues, documenting the setup, data, and results in a formal technical paper.

### Compressible Flow Nozzle Analysis Project

Apr 2026

- Programmed a computational model for converging-diverging nozzles, classifying compressible flow states and mapping pressure and Mach distributions across 7 regimes.
- Mapped internal shock wave locations and calculated exit flow angles for over- and under-expanded nozzles, graphing the results to verify the theoretical flow behavior.

### Orbit Determination Project

Mar 2026 – Apr 2026

- Applied the Gauss Method within MATLAB to extract standard orbital elements from raw observational data.
- Debugged and optimized the iterative loops within the model to ensure the calculations were accurate.
- Compiled the mathematical derivations, code structure, and final orbital analysis into a formal LaTeX report.

### Design, Build, Fly – AIAA Student Member

Aug 2024 – Apr 2025

- Constructed prototype aircraft components, gaining hands-on experience with composite skin application and structural wing assembly.
- Inspected parts throughout the build process to verify they met design specifications and were structurally safe for flight.

## WORK EXPERIENCE

### Team Member, Meconis Italian Subs

Lacey, WA  
Nov 2022 – present

- Communicated effectively with customers and team members in a fast-paced, high-volume environment.
- Collaborated with coworkers during peak operations to maintain efficient service and workflow coordination.
- Demonstrated reliability and professionalism by maintaining an organized, safety conscious, and customer focused workspace.

## HONORS

ERAU Presidential Scholarship  
ERAU Dean's List

Fall 2024 – Spring 2026  
Fall 2024 – Spring 2026