

# Kylie Michaud

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US Citizen | Daytona Beach, FL

## Objective Statement

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Aerospace Engineering student with hands-on experience in Command & Data Handling systems, PCB design, and hardware integration. Seeking a Summer 2026 internship to apply hardware development, flight testing, and CAD skills to advance aerospace technology. Interests include UAVs, metamaterials, satellites, and high-performance aircraft.

## Education

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**Embry-Riddle Aeronautical University**, BS in Aerospace Engineering, GPA: 3.38 Sept 2023 - Present  
– Minor, Electrical/Computer Engineering

## Projects

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**Command and Data Handling Engineer**, NASA L'SPACE MCA June 2025 - August 2025

- Virtual NASA workforce preparation academy dedicated to learning the formulation process of a space mission concept through science, engineering, programmatic, and teaming skills.
- Contributed to design documents such as PDR, MDR, MCR, SRR, TRL, trade studies, and lifecycle PowerPoint.
- Supported the mission design of a rover through the Command and Data Handling Subsystem integration.

**Lead Researcher**, Metamaterial Vibration Control in UAVs for Enhanced Accuracy October 2025 - Present

- Exploring the difference in vibrational frequencies on drones using dampeners constructed with metamaterials.
- Developing an application life cycle to pursue further research, manufacturing, testing, and data analysis.
- Presented research poster at the Fall 2025 Student Research Symposium for Undergraduate Research.

**Flight Systems, PR Officer**, Icarus Sounding Rocket Program October 2023 - Present

- Conducting hypersonic flight research to validate the flagship rocket's in-flight performance.
- Utilizes OpenRocket simulations to analyze different in-flight events for PLAR.
- Calculated velocity and kinetic energy through utilizing Altus Metrum for our two-stage rocket's flysheets.
- Written and revised 4+ standard operating procedures to ensure safety and efficiency in testing.
- Designs graphics, logos and merchandise, while managing all social outreach with Microsoft Office apps and Canva.

**tBEARR Payload Team, PR Officer**, Embry-Riddle Orbital Research Association Sept 2024 - Dec 2025

- Working on the structural redesign of our 3U CubeSat, into an integrable external ISS payload using Inventor.
- On team of 5 students writing SRR for the payload to understand how UV and cosmic radiation effect tardigrades.

## Experience

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**Seasonal Manager**, Holy Cow Ice Cream Cafe – Salem, MA May 2022 - Present

- Manages a team of 15+ employees in a fast-paced customer-facing environment to mitigate wait times and improve shift efficiency.
- Implemented inventory tracking using Microsoft Excel, increasing sales by 15% and boosting customer satisfaction.
- Provides ongoing training to support employees, operational efficiency, and customer service.

**Engineering Intern**, Medtronic – Danvers, MA Sept 2022 - January 2023

- Gained exposure to product quality standards and compliance processes in manufacturing.
- Worked alongside lab technicians to process environmental samples while practicing industry standard protocols.
- Attended weekly workshops on resume building, networking, and career development.

## Skills

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**Technologies:** CATIA v.5, Siemens NX, Autodesk Inventor, MATLAB, Python, Xilinx Vivado, MS Word, MS Excel

**Technical:** Report/Technical Writing, CAD Drafting, Risk Management, Hardware Integration, Systems Engineering