

Quinten Acchione

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EDUCATION

Embry-Riddle Aeronautical University Bachelor of Engineering in Aerospace Engineering GPA: 4.0	Daytona Beach, FL <i>Expected December 2026</i>
Relevant Coursework: Heat Transfer, Aerodynamics, Spacecraft Attitude Dynamics, Structures, Space Mechanics, Aerospace Engineering Materials, Spacecraft Systems, Dynamics, Introduction to Aerospace Flight Vehicles, Solid Mechanics	

PROFESSIONAL EXPERIENCE

Phemotron Systems <i>Lead Drone Developmental Engineer Intern</i>	Daytona Beach, FL <i>May 2025 - August 2025</i>
<ul style="list-style-type: none">Overseeing the design and manufacturing of custom Unmanned Aerial Systems (UAS) tailored for applications in surveillance, mapping, delivery, and other advanced autonomous flight operations.Supporting the payload subsystem for the AI-MotherBox-1 CubeSat, specifically focused on the integration and performance of its multispectral optical imager.	
Embry-Riddle – Thermal Sciences Lab <i>Student Representative</i>	Daytona Beach, FL <i>September 2025 - Present</i>
<ul style="list-style-type: none">Investigating the influence of surface roughness on heat transfer and pressure drop in supercritical CO₂ gas coolers using a Python-based numerical model inspired by Dang & Hihara's experimental work.Simulating a tube-in-tube counterflow heat exchanger transferring heat between supercritical CO₂ and H₂O to determine performance impacts at varying mass flux, pressure, and relative roughness.	
Embry-Riddle – XD Lab <i>Research Operations and Integration</i>	Daytona Beach, FL <i>May 2025 - Present</i>
<ul style="list-style-type: none">Implementing genetic algorithms and reinforcement learning AI agents in Python for comprehensive global optimization of interplanetary and halo-orbit transfer trajectories	
Embry-Riddle – Human Research Program <i>Lead Researcher</i>	Daytona Beach, FL <i>January 2025 - August 2025</i>
<ul style="list-style-type: none">Designed and contributed to the development of technologies aimed at reducing medical and environmental risks, optimizing human systems resource requirements (mass, volume, power, data), and ensuring effective human-system integration across exploration mission systems.Writing research proposals for NASA-funded grants and conducting in-depth research to support project goals and advancing understanding of human health and performance in space environments.	

PROJECT EXPERIENCE

FPV Drone 5-Inch BetaFlight	<i>Personal Project Summer 2024</i>
<ul style="list-style-type: none">Soldered electrical components including the flight controller, speed controllers, and transmitterAssembled the frame, motors, and propellers to construct a fully functional droneImplemented testing and calibration procedures using BetaFlight to ensure optimal drone performance	
Engineers Without Borders Research & Design, SolidWorks	<i>ERAU Club August 2023 - December 2024</i>
<ul style="list-style-type: none">Actively involved in a research and design project aimed at developing a working water distribution system for the community of El Tunel, NicaraguaUtilized SolidWorks to design and stress analysis test a water tank and water tank platform	

TECHNICAL EXPERIENCE

Software: CATIA, SolidWorks, Autodesk Fusion 360, Microsoft Office Products, Visio, STK, AutoCAD, Nexus, BetaFlight, CFD

Hardware: Vicon

Programming: MATLAB, Python, C++, JavaScript

Manufacturing: 3D Printing, Soldering

INTERPERSONAL SKILLS

Leadership, Time Management, Teamwork, Problem-Solving, Emotional Intelligence, Adaptable, Attentive, Resilient, Strong Work Ethic, Project Management, Strong Written and Oral Communication, Presentation Skills