
COLBY R. DAVIS

(573) 987-9307, colbyricharddavis@gmail.com, LinkedIn: colbydavisr

EDUCATION

Embry-Riddle Aeronautical University – Daytona Beach, FL
Bachelor of Science in Aerospace Engineering – Astronautics

May 2024
GPA: 3.3/4.00

University of Central Florida

Master of Science in Aerospace Engineering – Space System Design and Engineering

May 2026

PROJECTS

Embry-Riddle Aeronautical University Engineering Department

GNC Lead & Systems Lead – 12U CubeSat

August 2023 – May 2024

- Managed 5 other students through design process adhering to NASA standards and guidelines
- Found most optimal transfer orbit
- Designed station keeping and graveyard orbits
- Created AD&C profile for mission lifetime using Simulink
- Collaborated on proposal to send to NASA

Mission Manager – Variable Pitch Propeller

January 2024 – May 2024

- Developed C++ script to convert data from MATLAB to motor controller
- Designed platform and propellers for testing applications

Owner – 3D Print Business

August 2023 – Current

- Developed and modeled a unique product using GD&T concepts
- Worked with a partner to design and produce small scale gym equipment using 3D printing

Project Lead - Satellite Attitude Control System

October 2023 – December 2023

- Developed detumble/orientation controller using state-space model
- Built 3D rendering of satellite detumble and orientation

CO-Lead – NASA Micro-G Next Eva Zip-Tie Installer

August 2023 – January 2024

- Supervised and managed 6 Underclassmen overseeing project milestones and requirements were met
 - Ensured design parameters and assumptions provided by NASA were followed
 - Wrote proposal for NASA submission
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CERTIFICATIONS

ANSYS - STK Level 1: Mission modeling, Simulation, Analysis and Visualization

WORK EXPERIENCE

Anytime Fitness – Jackson, MO

Staff

Current

- Coordinated events to boost member engagement and retention
 - Developed reports on membership trends and feedback for management review
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| TECHNICAL | PERSONAL |
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| MATLAB, Simulink, C++, Python, STK, Nastran, Solidworks, NX, CATIA, FORTRAN, Linux, Thermal Desktop, OFFICE 365, VxWorks | Time Management, Leadership, Adaptability, Communication, Motivation, Problem Solving, Critical Thinking |