
COLBY R. DAVIS

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EDUCATION

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

May 2024
GPA: 3.35/4.00

PROJECTS

Embry-Riddle Aeronautical University Engineering Department

Mission Manager – Variable Pitch Propeller

January 2024 – May 2024

- Led group of 4 peers through AI&T of semester long project
- Built small prototype coaxial variable pitch propeller for Mars application

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

Systems and GNC Lead – 12U CubeSat

August 2023 – May 2024

- Managed 5 other students through design process adhering to NASA standards and guidelines
- Developed WBS, CONOPS, Customer and Mission requirements
- Wrote procedures for Day In the Life Testing and Environmental tests
- Analyzed thermal and vibration using Thermal Desktop and Solidworks
- Collaborated on proposal to send to NASA

Project Lead - Satellite Attitude Control System

October 2023 – December 2023

- Worked with partner to develop equations of motion in MATLAB for state-space control
- Built 3D rendering of satellite detumble and orientation

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

- 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

Hawg Pit – Jackson, MO

Kitchen Staff

June 2017 – October 2019

- Maintain clean and safe work environment
 - Time management with multiple co-workers in fast-paced environment
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TECHNICAL

Python, STK, Nastran, Solidworks, NX, CATIA,
FORTRAN, MATLAB, Simulink, Linux, Thermal
Desktop, C++, OFFICE 365

PERSONAL

Time Management, Leadership, Adaptability,
Communication, Motivation, Problem Solving, Critical
Thinking