COLBY R. DAVIS

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EDUCATION

Embry-Riddle Aeronautical University – Daytona Beach, FL
May 2024
Bachelor of Science in Aerospace Engineering – Astronautics
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 propellor for Mars application

Owner – 3D Print Business
August 2023 – Current
- Developed unique product concept targeting a niche market
- Worked with a partner to model and 3D print scale gym equipment

Systems and GNC Lead – 12U CubeSat
August 2023 – May 2024
- Managed 5 other students for preliminary and detail design process
- Developed WBS, CONOPS, Customer and Mission requirements
- Performed orbit analysis and attitude control using STK and SIMULINK
- Analyzed thermal and vibration using Thermal Desktop and Solidworks
- Communicated with system manufactures

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 on the preliminary and detail design
- Ensured design parameters and assumptions provided by NASA were followed
- Wrote proposal for NASA submission

CERTIFICATIONS

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

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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*

TECHNICAL	PERSONAL
Python, STK, Nastran, Solidworks, NX, CATIA, FORTRAN, MATLAB, Simulink, Linux, Thermal Desktop, C++, OFFICE 365	Time Management, Leadership, Adaptability, Communication, Motivation, Problem Solving, Critical Thinking