

COLBY RICHARD DAVIS

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OBJECTIVE

Seeking an Aerospace Engineering position to develop career with a focus in spacecraft design

PROJECT EXPERIENCE

CubeSat Design – Led the comprehensive design of 6U CubeSat, conducting the trajectory analysis on STK, thermal and vibration analysis on SolidWorks, designed electronic schematics, and created a CAD model, all from off the shelf components.

Propulsion Design – Designed a solid rocket capable of launching a payload into low Mercury orbit from Earth, using STK software to determine optimal trajectory and combustion performance analyzed using Chemical Equilibrium with Applications (CEA) software.

Micro-g NExT – Led a team of nine Underclassman to participate in Micro-g Next challenge by NASA. The team submitted proposals of designs to NASA, including 3-D models, and simulations.

Controls Project – Used equations of motion to create a state-space model in MATLAB for an ACS to detumble and orientate a satellite while also displaying its course in a 3D projection.

EDUCATION

May 2024	Embry-Riddle Aeronautical University Bachelor of Science in Aerospace Engineering <i>Area of Concentration: Astronautics</i>	Daytona Beach, FL
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WORK EXPERIENCE

2020	JCPenney's Seasonal Cashier <ul style="list-style-type: none">Cooperate with staff to accomplish set goalsPersuade and sell to potential customersManage purchases and refunds	Cape Girardeau, MO
2017– 2019	Hawg Pit Kitchen Staff <ul style="list-style-type: none">Maintain clean and safe work environmentTime management with multiple co-workers in fast-paced environmentManage staff execution of daily tasks	Fruitland, MO

SKILLS

COMPUTER: Python, MATLAB, CATIA, OFFICE 365, Solidworks, FORTRAN, STK, Simulink, Nastran, FEMAP, Linux

LANGUAGES: Spanish (Intermediate), English (Native)

ACHIEVMENTS

2021-24 Embry-Riddle Aeronautical University Dean's list
ERAU Presidential Scholarship
2016-2020 Jackson Senior Highschool A Honor Roll

