


Nicholas Orrill

<https://www.linkedin.com/in/nicholas-orrill-6a2729244> 

I aspire to be a lead engineer that manages and oversees projects based on the propulsion aspect of rocket design.

Orrilln@my.erau.edu 

(760) 258-6169 

nicholasorrill.com 

Experience

Engineering Intern | Canyon AeroConnect

Canyon stands as one of the world's leading suppliers of avionics-standard aircraft communications, navigation and audio/intercom systems

May 2022 to Aug 2022

- Reverse engineered a set of drawings to create a SOLIDWORKS CAD model
- Designed a wiring harness for automated testing of ESMCP system
- Completed a project updating outdated drawings and documents, inserted them into the database
- Worked to complete Engineering Change Reports, updated schematic drawings, and created Source Control Drawings

Projects

Embry Riddle Aeronautical University

Mars Unmanned Aerial Vehicle for Exploration | Senior Design Project

Jan 2022 to Dec 2022

- Researched and designed a 6-rotor surveillance drone to be placed on the Martian surface
- Designed a 1/5th scale Earth based prototype of the 6-rotor drone
- Lead researcher and designers of the Thermal control system
- Research and design of Guidance, Navigation, and Control system

Project Lazarus - Propulsion Team | Rocket Development Lab

Aug 2021 to Aug 2022

- Designed a 72mm solid propellant rocket motor
- Wet winding of a 72mm solid propellant rocket motor with carbon filter filament for hydrostatic testing
- Designed a 6in solid propellant rocket motor

Eagle Space Flight Team - Propulsion Team | Undergraduate Research Institute

Aug 2021 to Aug 2022

- Designed and tested 6 inch solid propellant rocket motor
- Designed an 8 inch solid propellant rocket motor

Spacecraft Attitude Dynamics and Control

Aug 2021 to Aug 2022

- Designed and tested 6 inch solid propellant rocket motor
- Designed an 8 inch solid propellant rocket motor

Education

Bachelor of Science, Aerospace Engineering

Embry Riddle Aeronautical University

Dec 2022 Prescott, AZ

Skills

MATLAB, Simulink, SOLIDWORKS, CATIA V5, ANSYS, ANSYS SCADE Suite, Lab View, Microsoft Office, Google Suite, Mind Manager, Jama Software, Technical documentation.