

# Arial Space-Engineering

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**OBJECTIVE** To obtain a full-time, entry-level aerospace engineering position.

**EDUCATION** Embry-Riddle Aeronautical University Daytona Beach, FL  
**Bachelor of Science, Aerospace Engineering** May 2023  
Area of Concentration: Astronautics GPA: 3.52/4.0

**PROJECT EXPERIENCE** **Senior Preliminary Design Project – Rocket Capable of LEO:** Member of 7-person team Created a plan with team for developing rocket based off of customer’s requirements, designed the solid propellant fuel tanks, modeled 3-stage rocket in CATIA, developed timeline for tasks, presented material to faculty.

**CATIA Class Project – Model 18 Speed Bicycle:** Member of 3-person team Dimensioned bicycle with calipers, modeled using Part, Assembly, Generative Shape, and Parametric Design Workbenches. Used Drafting and Real Time Rendering Workbenches to dimension and embellish.

**Turbine and Rocket Engines Project – Axial Compressor Stage Design Project:** Individual assignment Developed axial compressor stage given design specifications, used engineering method, problem-solving skills and iteration to develop project design.

**INTERNSHIP EXPERIENCE** *Southwest Airlines* Dallas, TX  
**Engineering Intern (Remote due to COVID-19)** January 2021 – Present

- Provide aircraft engineering support to line and check aircraft
- Review manufacturer bulletins and regulatory requirements on 75+ Boeing 767 and 777 aircrafts
- Investigate and provided dispositions for aircraft non-conformances resulting from in-service failure

**WORK EXPERIENCE** *ERAU* Daytona Beach, FL  
**Resident Director**, Department of Housing and Residence Life June 2020 – December 2020

- Selected, trained, supervised and evaluated staff of 14 Resident Advisors
- Managed facilities and coordinated programs for two residence halls with 400 first-year students
- Adjudicated pre-hearing conferences for students violating housing and university policies
- Served on rotating on-call duty schedule as initial emergency response for crisis management

**Resident Advisor**, DHRL January 2020 – May 2020

- Developed community and an academic environment for a hall of 18 first-year students
- Provided crisis intervention, conflict mediation, counseling, tutoring and advisement
- Programmed social, academic, or educational activities at minimum on a biweekly basis

**Grader**, Physics Department January 2020 – May 2020

- Graded assignments of 40 students enrolled in physics courses and communicated with professor ensuring correct documentation of grades

**SKILLS**

*Engineering Software:* NASTRAN, CATIA v.5, MatLab, Programming in C, Simulink  
*Office Software:* Microsoft Word, Excel, PowerPoint, Publisher, Access, Teams  
*Technical:* Drafting, 3-D printing, CNC milling  
*Languages:* Spanish (fluent), Italian (basic)

**LEADERSHIP/ INVOLVEMENT** College of Engineering Senator, Student Government Association, Spring 2021-Present  
Secretary, National Society of Collegiate Scholars, ERAU Chapter, Spring 2020-Fall 2020  
Member, AIAA, Fall 2019-Present

**AWARDS** ERAU Presidential Scholarship, Brennan Scholarship, Spring 2021-Present  
ERAU Dean’s List, Spring 2019-Present  
ERAU Volunteer Network “Most Time Volunteered Award”, Fall 2020