Andrew Pierre-Antoine

301.502.7186 **andrewpierreantoine@gmail.com**

OBJECTIVE

Goal-oriented aerospace engineer with strong technical, analytical, and communication skills. Seeking an internship to gain hands-on experience and broaden my perspective in a dynamic organization that fosters personal and professional growth.

EDUCATION

Embry-Riddle Aeronautical University (ERAU) Daytona Beach, FL
Bachelor of Science, Aerospace Engineering December 2026
Area of Concentration: Astronautics

INTERNSHIP EXPERIENCE

Assembly, Test, and Launch Operations Dept. Intern *Merritt Island, FL*
Airbus U.S. Space and Defense *May 2023-August 2023*

- Collaborated with multiple departments to design a comprehensive launch facility in **SolidWorks**, integrating launch support systems, power distribution, payload handling, and multi-stage rocket assembly. This coordination enabled my team to optimize the launch process and ensure seamless pre-launch planning.
- Examined the processes of ARROW450 and ARROW150 satellite production and manufacturing.
- Surveyed the different leadership roles and responsibilities of various administrators in the company.
- Corresponded with a team of engineers to complete daily tasks and long-term projects.

WORK EXPERIENCE

Engineering Mentor *Daytona Beach, FL*
Black Pilots of America STEM Aviation Summer Camp *June 2024-August 2024*

- Guided students through hands-on aerospace and engineering projects.
- Taught fundamental aerodynamics, aircraft design, and propulsion concepts to inspire the next generation of aviators and engineers.
- Led interactive workshops and STEM activities, fostering problem-solving skills and teamwork among students.
- Provided mentorship and career guidance, sharing insights into engineering pathways and aerospace opportunities.
- Assisted in organizing and executing flight-related educational experiences, enhancing students' practical understanding of aviation.

Student Crime Prevention Practitioner *Daytona Beach, FL*
Embry-Riddle Aeronautical University *August 2023-August 2024*

- Patrolled designated areas of campus to ensure a safe and secure environment for students, faculty, and staff. Conducted routine safety checks of campus facilities, identifying and reporting hazards or security concerns to appropriate authorities.
- Assisted with crowd control and event management during campus activities, ensuring compliance with safety protocols and regulations. Collaborated with campus security team members to coordinate emergency responses and Implement safety procedures.
- Provided escort services for students and staff during late hours, enhancing safety and security on campus grounds and participated in ongoing training sessions to stay updated on safety protocols, emergency procedures, and conflict resolution techniques.

PROJECTS

Charon Mission Architecture and Web Design Project May-July 2023

- Developed and researched a conceptual mission plan for a sustainable settlement on Charon, Pluto's moon, incorporating spacecraft design with nuclear propulsion, landing site analysis, in-situ resource utilization of water ice and methane, and phased exploration strategies. Collaborated with a team to outline funding approaches and partnership frameworks with government and private organizations to support mission feasibility.

MATLAB License Plate Generator Project January-April 2023

- Programmed a tool that offers a seamless and efficient solution for generating diverse sets of license plate numbers with ease and precision. Paired also with a pop-up map programmed to highlight the user's previously entered state of residence, and other states with similar license plate formats.

Low Earth Orbit Launch Design Project August-October 2022

- Designed a rocket capable of Low-Earth Orbit as a member of a 4-person team. Created a plan with the team for developing a rocket based on customers' requirements in MATLAB, designed the solid propellant fuel tanks, modeled a 3-stage rocket in CATIA, and set a timeline for tasks. Served a term as a cognizant engineer, overseeing project operations.

SKILLS

Engineering Software: CATIA v.5, SolidWorks
Office Software*:* Microsoft Word, Excel, PowerPoint, Teams
Technical: 3-D printing
Languages**:** Haitian Creole: Fluent

LEADERSHIP/INVOLVEMENT

National Society of Black Engineers – Programs Chair
ERAU Pickup Basketball Club – President
Patti Grace Smith Fellowship (ERAU) Class of 2023