Raul Santos

(469)763-6836 | rdsflomo03@gmail.com | linkedin.com/in/raul-santos-1534b3225 | github.com/raulds-fmtx

Summary

Dedicated Aerospace Engineering student with a strong background in systems engineering and unmanned aerial systems (UAS). Experienced in designing, integrating, and testing advanced aerospace systems, with a proven ability to lead multidisciplinary teams. Proficient in modeling and simulation using SysML and MATLAB, and skilled in coding languages including C++, Python, Java, and JavaScript. Demonstrates excellent leadership, communication, and outreach capabilities through roles as a co-founder and team lead. Passionate about contributing to innovative aerospace projects.

Education

Texas A&M University Aug. 2021 – May 2025

Bachelor of Science in Aerospace Engineering, GPA 4.0 *College Station, TX*

- **Minors** in Computer Science & Math
- **Honors**: Brown Scholar, President Endowed Scholar, Engineering Honors
- **AERO Coursework:** Dyn. of Aero. Vehicles, Fund. of Aero. Autonomy, Aerothermo Propulsion, Aero. Materials Sci.
- **CSCE Coursework:** Computer Org. Programming Languages, Data Struc. & Algorithms, Discrete Structures

SMU Continuing & Professional Education Feb. 2024 – August 2024

Full Stack Development Bootcamp, GPA 4.0 *Dallas, TX*

Experience

Albers Aerospace Mckinney, TX

Systems Engineering Intern *May 2024 – July 2024*

- Designed, integrated, and tested a multirotor, hybrid-electric SUAS for an internal research project
- Modeled the SUAS using SysML in Cameo Systems Modeler, adhering to MBSE best practices
- Used an MQTT broker to interface Cameo w/ Arduino, enabling hardware-in-the-loop (HiL) testing of our system
- Conducted a HiL demonstration for an Albers Aerospace partner, highlighting its potential for a proposed project

Society of Sonic Flight Engineers College Station, TX

Co-Founder, Aerodynamics Lead, Outreach Officer *Jan. 2023 – Present*

- **Co-founded** SSFE, a student design team that dedicated to iteratively increasing the speed of fixed-wing SUAS
- Collaborated with a team to design, integrate, and test an electric propeller-powered fixed-wing SUAS
- Led the aerodynamics team in design, analysis, and simulation of stability and control characteristics of the SUAS
- Served as **Secretary**, responsible for logging meeting minutes, creating presentations, and tracking attendance
- Acted as **Outreach Lead**, recruiting and interviewing new members and securing donors

Code Ninjas College Station, TX

Coding Instructor *July 2023 – Feb. 2024*

- Instructed & developed curriculum for LEGO Spike classes and camps, developing students' interest in robotics
- Worked with fellow STEM educators to guide students through lessons in MakeCode and Unity

Blinn College Bryan, TX

Math & Physics Tutor *Jan. 2022 – May 2022*

- Developed student proficiency in calculus and physics topics through review of class materials
- Guided students through exam preparation materials for various math and physics courses

Organizations

TAMU Salsa Fusion College Station, TX

Show Team Performer *Jan. 2023 - Oct. 2023*

- Performed a routine of various styles of Latin dance in venues around the Bryan-College Station area

American Institute of Aeronautics & Astronautics College Station, TX

Member *Aug. 2022 - Present*

- Attended lectures and professional development seminars with TAMU professors and industry recruiters

Skills & Interests

Skills: SolidWorks, MATLAB, Cameo Systems Modeler, MQTT, Pandas, NumPy, Matplotlib, Microsoft Office, Technical Writing

Interests: UAS, Aerospace Autonomy, IoT, HiL Simulation, Stability & Controls, Data Science, AI, Web Dev, MBSE

Coding Languages: C++, Python, JavaScript, Java, SysML, SQL, NoSQL, CSS, HTML, MATLAB, C#