RYAN SANTIAGO

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PROFESSIONAL SUMMARY

I am a dedicated and detail-oriented aerospace engineering student with hands-on experience in mechanical systems, PCB design, and diesel mechanics. My background includes working on complex systems and performing troubleshooting, repairs, and testing in both mechanical and aerospace contexts. Known for my strong analytical skills, problem-solving abilities, and collaborative nature, I am eager to apply my technical expertise and passion for innovation to contribute to cutting-edge technologies and work within multidisciplinary teams.

EDUCATION

Aerospace Engineering Exp. Grad. Date May 2026: GPA: 3.3
Saint Louis University - Saint Louis, MO
Relevant Coursework: Thermodynamics, Electrical Engineering, MatLab and Aircraft Performance, Prototyping.

SKILLS

- Diesel Mechanics
- Matlab/Python
- Material Science
- 3D Printing
- Bilingual
- Office 365 Proficiency
- Solidworks/Onshape

WORK HISTORY

Diesel Mechanic
Honor Logistics - Puerto Rico 04/2020 - 08/2021

- Executed engine disassembly and component repairs with precision, minimizing the risk of recurring issues and improving vehicle uptime for logistics operations.
- Proven ability to quickly learn and adapt to new technologies and mechanical systems, reducing repair time by 15% through the introduction of more efficient diagnostic methods.
- Worked in disassembling truck engines to repair damaged pistons, injectors and other engine related problems.

Rocket Propulsion Lab
President – Saint Louis, MO 08/2025 - Present

- Led a cross-functional team of students and researchers in the design and development of a high-power rocket, focusing on mechanical system integration, ensuring performance goals were met in thermal, structural, and propulsion subsystems.
- Designed and optimized an SRAD propulsion system, providing mechanical engineering solutions to improve system reliability and efficiency, while incorporating key principles of materials selection and kinematics.
- Developed ground station program in Python to monitor real-time telemetry data, applying problem-solving skills to optimize system performance and ensure reliable communication during test flights

Intercollegiate Engineering Competition 2025 (Team Lead) 08/2024 – 06/2024

- Designed and developed printed circuit boards (PCBs) for aerospace applications, ensuring seamless integration with avionics systems, which improved system reliability and signal integrity under flight conditions.
- Led the team to the 4th best SRAD team and 36th overall out of 150 teams.