

# Carmen LoConti

[carmen.loconti@outlook.com](mailto:carmen.loconti@outlook.com) | (216) 390-3933 | [Carmen LoConti](#) | [LinkedIn](#)

July 22, 2025

Hiring Manager  
SpaceX  
1 Rocket Road  
Hawthorne, CA 90250

---

Dear Hiring Manager,

I am excited to apply for the Build Reliability Engineer (Raptor) position at SpaceX, inspired by your mission to revolutionize space exploration and enable human life on Mars. As a senior Mechanical Engineering student at Cleveland State University (GPA: 3.84), with almost a year of hands-on aerospace manufacturing and repairs experience at Aero Fluid Products, I am eager to contribute my skills in CAD design, additive manufacturing, and process optimization to SpaceX's innovative projects.

My passion for engineering, sparked by Sci-Fi films and building RC cars, was cemented by a Naval Science Award at the NEOSEF science fair, steering me toward aerospace innovation. At Aero Fluid Products, I designed 3D tooling models in SolidWorks for F-22/F-16 Canopy Actuator Assemblies, Oil Control Manifolds, and Relief Valves, ensuring precise SmarTeam documentation. Using Raise3D and Markforged printers, I produced toolings for our technicians, enhancing familiarity with aerospace components, and improving assembly and repair efficiency. I reduced labor time by ~50% through Toroid Winder training, optimizing electromagnet coiling, and supported MES paperless system integration, streamlining production data tracking by reducing retrieval time. I collaborated in cross-functional meetings with quality, manufacturing, and operations teams to drive process improvements.

In the CSU Parker Hannifin Power & Motion Lab, I designed hydraulic systems and analyzed fluid dynamics using Hopsan, developing skills applicable to SpaceX's propulsion and control systems. As Vice President of CSU's ASME chapter, I lead aerospace-focused workshops and industry networking events for 50+ members, fostering innovation and reflecting SpaceX's collaborative ethos.

SpaceX's commitment to pushing technological boundaries aligns with my drive to create impactful solutions. My technical expertise, problem-solving passion, and teamwork experience position me to advance your mission of transforming space travel.

Thank you for considering my application. I welcome the opportunity to discuss how my skills align with SpaceX's goals. Please contact me at (216) 390-3933 or [carmen.loconti@outlook.com](mailto:carmen.loconti@outlook.com).

Sincerely,  
Carmen LoConti