

To whom this may concern,

I am an Electrical Engineering graduate from Texas Tech University, eager to contribute my technical expertise, creative problem-solving, and passion for innovation to a dynamic team. My diverse experience in system design, embedded software, and cross-functional collaboration equips me to tackle complex challenges and deliver impactful solutions in industries ranging from renewable energy to autonomous systems.

My background in embedded systems and real-time applications fuels my ability to design and develop cutting-edge technologies. During an R&D internship at Roav 7, I created a .NET MAUI application that optimized drone pilot workflows, collaborating with technical and procurement teams to enhance operational efficiency. This experience honed my ability to translate user needs into functional, user-focused solutions, blending technical precision with creative design.

My academic and research projects showcase my ability to innovate across disciplines. I designed an autonomous penalty-shooting robot, integrating Verilog control logic, custom PCB design, and mechanical prototyping to create a cohesive system. Additionally, I developed a local network scanning application using React, Python, and Flask for real-time diagnostics on Raspberry Pi, demonstrating my knack for building versatile, practical tools with broad applications.

At Texas Tech's Drone Research Lab, I led UAV platform design and sensor integration, leveraging Pixhawk/Ardupilot for system calibration and fostering a collaborative, structured environment. These experiences refined my skills in technical documentation, interdisciplinary teamwork, and creative troubleshooting, all of which are transferable to diverse engineering and product development roles.

My technical toolkit includes proficiency in Python, C++, and Verilog; PCB design with KiCad; and computer vision technologies like YOLO and Halo. Fluent in English and French, I also bring strong skills in root cause analysis, technical communication, and user-centric design, ensuring solutions that are both innovative and reliable.

I am driven by a passion for creating sustainable, impactful technologies and thrive in environments that demand both technical rigor and creative ingenuity. I am excited to contribute to forward-thinking projects and would welcome the opportunity to discuss how my skills and vision align with your organization's goals.

Sincerely,

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