Steven Campos

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Dear Hiring Manager,

I believe I have much to contribute to Mantis Ag Technology. My ability to communicate and perform in a team environment are valuable skills I can bring to the company. My prior research experiences have developed my leadership capabilities and have allowed me to mature my professional stature.

Throughout my academic career as an engineering student, I have participated in several school activities and projects that have developed my engineering skills. I first began with a class focused on working in team to build a quadcopter. Through this class I was able to learn Solidworks and MATLAB giving me an edge for future work as well as learned leadership as I was the team lead that had to assign work for various members and ensure we met criteria of flight and navigation. Sophomore year I joined Design Build Fly research design team, in which the team focused on designing an airplane that can perform tasks such as flying nonstop for 5 minutes, carrying a payload, and sustaining a 1foot drop in a launch tube. I worked within two sub teams, where I helped design preliminary ideas and begin manufacturing designs. I worked on carbon fiber molds and wet layups for motor mount designs. I designed 2 different testing tubes, balsa wood with fiberglass cover and carbon fiber mold. Through this I learned the importance of weight, cost for design and balance of various aspects needed for an airplane.

In addition, I took a lab focused on learning about wing structures and how they behave in different Re. I truly felt my passion for aeronautics within this class as I engaged in the wind tunnel lab by analyzing how different slats and flaps dictate the behavior of lift and drag. I was able to test different angles of attack, observe stability and stall. This all ultimately helped me create a final project where I optimized winglets and tested a 3d printed sample in the wind tunnel. This experience helped me gain knowledge about design of airfoils and gave vital leadership experience in a team setting.

This year I have taken courses that are building a foundation for my knowledge in aerospace, my aircraft performance and flight dynamics class have taught me to analyze features of aircraft that will help performance and maximize efficiency. To learn how forces, and induced moments behave during flight and how it affects aircraft has been eye opening since I now can use my intuition and knowledge to correct behavior.

I was a member in Rocket Project designing the Parachute Ejection System and plumbing system. I use a MATLAB code dictating different parameters of the rocket to figure out the size of parachutes and what tension they must be able to withstand. I use knowledge from past material science classes where analyzing and simulating fatigue and stress is important to see possible failure. In addition, I test the thrust of the engine using a load cell and graphing the performance to analyze.

With this Combination of academic and hands on experience, I believe I will fit right into the job. I hope to bring my experience and knowledge to cultivate innovative ideas. If you have any questions feel free to contact me at stevenscampos7@gmail.com. Thank you for your time and I hope to hear from you soon.

Best Regards,

Steven S. Campos