Ben Halley

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Raytheon

I am Ben Halley, a recent graduate of Iowa State University with a BS in Aerospace Engineering and a minor in Leadership. I have only been in the Boulder area for a few weeks, and I have already heard rave opinions about Raytheon and how awesome it is to work for this company. Raytheon is the quintessential aerospace organization, and as a man who has a driving passion to become a part of the aerospace industry, I hope you consider me to become your next System Engineer!

I am qualified for this position due to my various experiences managing intricate systems aboard both a satellite project I am working on and a senior project that was sponsored and supervised by Boeing. While working on CySat-1, a student-led project that will launch a CubeSat capable of measuring soil moisture levels, I served as Payload Team Lead. As team lead, I not only worked with and led a few other talented engineering students, but I also oversaw the integration of the Payload system with the satellite as a whole. This includes managing the data transfer between the payload and the main computer, designing and validating circuit boards, testing RF capabilities of the Payload using oscilloscopes and DMM’s, managing the physical orientation of the payload system within the tight 3U Cube Satellite, and communicating that integration with the other team leads on the project.

While working on a senior project sponsored and supervised by Boeing engineers, my role on the team was to create various SolidWorks models of our concept vehicle and analyze the models using the aerodynamic analysis program STAR-CCM+. This role also necessitated systems engineering techniques such as QFD’s, requirement analysis, and trade studies to optimize the vehicle’s structure and design. Using these techniques, my team and I were able to confidently and successfully present our concept vehicle to Boeing engineers in both a Product Design Review and Conceptual Design Review.

Systems Engineering was my favorite subject while in college, and I found that applying the systems engineering techniques and mindset to a large project really ignited a passion within me. Simply, I love taking multiple parts of a project, verifying and validating them, and then helping to put them all together into a seamless, finished design. I believe this opportunity of System Engineer with Raytheon is the first step to a very fulfilling career of exciting engineering work, and I hope you consider me for this position. Please feel free to contact me by phone or email if you have any questions or concerns about my qualifications or experiences, and I look forward to next steps.

Sincerely,

Ben Halley