Ben Halley

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Lockheed Martin

I am Ben Halley, a recent graduate of Iowa State University with a BS in Aerospace Engineering and a minor in Leadership. I have grown up in awe of SkunkWorks and its impact on the world. In college, I heard professors rave about working there, and now I want to experience the SkunkWorks magic myself. This organization captures a passion within me, and I hope you consider me for the position of Applications 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 satellite capable of reading soil moisture from the Earth’s surface using a software-defined radio based radiometer, 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, 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.

I take a lot of pride in the work I have done in my engineering projects and education. I also take a lot of pride in the teams I have worked with; engineering isn’t as fun if it is done alone or on a poorly-functioning team. Working with SkunkWorks as an Application Engineer 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