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. Lockheed Martin has always resided in my mind as the leader in advancing the aerospace industry as a whole. This interest started through learning about SkunkWorks (happy 75th anniversary, by the way) then branched into a larger appreciation for the company as a whole. This organization captures a passion within me, and I hope to find a career igniting this passion with Lockheed Martin. I hope you consider me for the position of Mechanical Design and Analysis Engineer!

I am qualified for this position due to my various experiences in class and managing intricate systems aboard both a senior project that was sponsored and supervised by Boeing and a satellite project I recently worked on. Through class, I have modeled and analyzed various structures using ANSYS and MATLAB programs, Finite Element Analysis, and physical tensile tests. In addition, on a Boeing-sponsored senior design project, my role encompassed creating various configurations of a conceptual VTOL aircraft on SolidWorks, and then analyzing the aerodynamic performance of those models through Star-CCM+: a CFD program. The analyses I performed were instrumental in the trade studies that my team and I performed to make decisions toward the design of our concept vehicle.

While working on CySat-1, a student-led project that will launch a satellite in November, 2018, 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 the RF performance of the system with spectrum analyzers and 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.

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 Lockheed Martin as a Mechanica Design and Analysis 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