Ben Halley

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RUAG Space

I am Ben Halley, a recent graduate of Iowa State University with a BS in Aerospace Engienering and a minor in Leadership. The space industry has always captured my attention, and in my search for a job opportunity within this sector I have come across some spectacular companies. RUAG Space is one of my favorites. I love the innovation and focus on customer or client relationships that your company shows, and I hope to join your team as an Entry-Level Design Engineer.

One way that I have pursued my passion for the space industry is working with CySat-1, a student-led project that works with NASA’s CSLI program, Iowa Space Grant, and Make:2:Innovate to design, fabricate, and deliver a 3U Cube Satellite capable of scanning the Earth’s surface for soil moisture – to be launched in November, 2018. My role on the team is Payload Team Lead, where I work with and lead a few other talented engineering students to create a Software-Defined Radio based radiometer. In this position, I have designed a few iterations of circuit boards using KiCAD and worked closely with my supervisor and a few computer engineers to refine and optimize my design. I then present each iteration to my supervisor to make sure the design will work in the satellite or figure out how I can fix it for the next iteration.

In addition, I worked on a senior design project that was sponsored and supervised by Boeing engineers as the main design and aerodynamic team member. I used SolidWorks to create and refine models of our conceptual vehicle, then analyzed the aerodynamic efficiency of those models using STAR-CCM+. The design was further refined by using systems engineering techniques such as QFD’s and trade studies. My team and I then used those techniques to confidently and successfully present the conceptual vehicle to Boeing engineers in a Product Design Review, Concept Design Review, and a demonstration.

They say that if you pick a career you love, you’ll never work a day in your life. As cheesy and cliché as that line is, I am truly passionate about the space industry and I believe I would love working at RUAG Space. I hope you take a chance with me, and I appreciate your time. Please feel free to contact me by phone or email! I look forward to next steps.

Sincerely,

Ben Halley