September 2, 2018

Orbital ATK
3380 South Price Road
Chandler, AZ 85248

To Whom It May Concern:

I am writing to support my application for a Summer Engineering Intern position. I am a junior pursuing a BSE in Aerospace Engineering at ASU. However, it is my experiences and skills earned beyond my major in laboratory research, a club automotive engineering team and volunteering that I believe best showcase my talents and will prove to be invaluable to Orbital in advancing its mission statement.

Beyond the classroom, my experiences have focused on producing concrete results, within deadlines and budgets, and presenting them to superiors. This past summer, I was awarded an internship and funding by the AEOP to further goals set by the Army Research Office. Though guided by a graduate mentor, I primarily worked independently to reconstruct a high velocity light-gas gun (and its associated electronic/data systems) and begin my nanocomposites project. My abilities in programming, machining and design were tested and I had to teach myself to code in LabView. I was successful in restoring the gun, optimizing its design to use more inexpensive parts and to reach higher projectile kinetic energies and have since begun to test my composite specimens. Moreover, my project has gained additional funding from ASU through FURI and I have been invited to speak at the 2018 AIAA SciTech Forum where numerous representatives from industry, universities and NASA will be present.

Within Formula SAE, I also learned to apply my technical skills. Being in the Aerodynamics Team, we had to work to improve airfoils and frame design to optimize results under cost, weight and durability parameters. By extension, we had to communicate our decisions to other sub-teams and incorporate theirs. It is here that my expertise in CAD, simulation, and teamwork really began to develop. In relation to teamwork, at PAZ I assisted with classroom instruction and developed relationships with students to maximize their engagement. PAZ volunteering was vital in honing my interpersonal skills, an area I believe is overlooked by many.

I am confident that my technical background, course load and interests in this field have prepared me to be a strong applicant for this internship. I am excited at the idea of working with an industry leader such as Orbital. I have attached my resume and look forward to the opportunity to discuss my application further. Please feel free to contact me at [Redacted] or by email at [Redacted]. Thank you very much for your consideration.

Respectfully,

[Redacted]