

Nicolaus Herschel

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Dear Mechanical Engineer Search Committee,

I am responding to the Mechanical Engineer - Solar Array Integration position post on Handshake through Washington State University. My interest, experience, and knowledge of aerospace and mechanical engineering make me a great fit for this position. One of the main principles of CosmosY's program is the integration of new technology and systems into rocket designs, something I am passionate about and have experience with on a smaller scale. By working with CosmosY Aerospace, I will be able to help continue CosmosY's goals of commercializing space travel by providing my passion and technological knowledge.

As a senior at Washington State University Vancouver with a degree in Mechanical Engineering, my capstone research project is to plan and model a unique application of solar technology. Working with a team of two other engineering students, we created a design model in CAD for a compact satellite structure. According to the simulations, this structure could be utilized on numerous low and high orbiting satellites to extend battery life. From this experience, I gained the perspective to view earth bound technologies in an aerospace framework and the skills to apply it.

This past summer, I worked at Von Braun Aerospace Technologies as a Mechanical Engineering Project Intern. While working with a group of senior mechanical engineers, I applied my education by planning and implementing novel avionics hardware designs on four prototype models. After a small blunder with the restraint and deployment mechanisms during a test launch, I was able to modify the rocket prototype so its trajectory and main objective could be accomplished with greater success. It provided me with an opportunity to become skilled in designing those mechanisms and constructing them with additional models in the future.

My career goal is to enter the Aerospace Mechanical Engineering field and my passion, experience, and unique perspective would be a great addition to the CosmosY team. I know that I could make a difference in space aviation by working with your company. While I currently live in Washington state, I am moving to Miami in July of 2017 and will be immediately available for work if offered this position. Thank you for your time and consideration. I look forward to meeting you to discuss my experience and passion in more detail.

Sincerely,
Nicolaus Herschel