

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 (WSU) Vancouver. 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 WSU Vancouver earning a degree in Mechanical Engineering, my capstone research project focuses on designing a unique application for 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. My internship experience provided me with the opportunity to become more skilled with design, while also enhancing my attention to detail and organization skills.

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. While I currently live in Vancouver, Washington, I am moving to Miami, Florida in July of this year and will be immediately available for work if offered the 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