

Sebastián Colón Castro

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Objective: Acquiring an internship, or co-op experience to support and contribute companies through my logical, mathematical and design reasoning. Prioritizing the better understanding of the fundamentals of mechanical engineering with an end goal of contributing my skills to society.

Education

University of Puerto Rico, Mayagüez Campus

AUG 2018-Present

Bachelor of Science, Mechanical Engineering

GPA: 3.62/4.00 - Major GPA: 3.70/4.00

MSCHE-CES Accredited.

Expected Graduation Date: Dec. 2023

- **NASA Moon Buggy Project:** JAN 2021 - Present
Leader of the powertrain department, assisted in the transition from chain to belt drivetrain. Worked on key measurements such as belt lengths, pulley ratios, and designs using SolidWorks and python to maximize the efficiency of the vehicle. Additionally, participated in the writing of an Operation Readiness Review, Design Review and proposal. Currently working on designing a tandem, belt driven powertrain to maximize power distribution between the riders with an end goal of winning the competition.
- **Mars Habitat Project:** AUG 2020 - FEB 2021
Team member of the structure design department; created and analyzed the structure for a habitat that would theoretically withstand Mars harsh conditions using SolidWorks.
- **Hip replacement Project** AUG 2021 - DEC 2021
Worked in a group project which involved research and development of a hip replacement through Cad design and FDA regulations with the end goal of manufacturing a prototype. Learned of various materials used in the industry and the strictness of the process of making machines in this industry.
- **Trailer Project - Skootel Company:** AUG 2020 - DEC 2020
Designed and analyzed a basic 3D model of a trailer using SolidWorks for a semester group project for my mechanic of materials class; mainly working on the design and structural analysis, resulting in a perfect academic score.
- **TUNA UPRA:** JAN 2018 - AUG 2020
Group leader and fundamental guitarist in a musical organization of the University of Puerto Rico, Arecibo Campus. Educated and guided other members to enhance the quality of the work done by the organization.

Experience

- **Assistant Technician.** AUG 2018-2019
Worked alongside a professional mechanic in the provision and maintenance of heavy machinery.

Additional Information

- **Programming Language:** Python, Html-5 and CSS-3
- **Native Language:** Bilingual in both written, spoken English and Spanish and basic Italian.
- **Software skills:** Microsoft Office and SolidWorks.
- **Relevant coursework:** Heat Transfer, Machines 1 and 2, and Materials of mechanics.
- **Personal Interests:** Playing the guitar, gaming and running.