

Brayan M. Gonzalez

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Education

California State University, Northridge
Bachelors of Science, Mechanical Engineering

Northridge, CA
2017 – Present

Technical Skills

- Solidworks
- Finite Element Analysis
- ESPRIT
- Visual Basic for Applications
- MATLAB
- OptimumLap
- HAAS VF4SS
- HAAS TM1
- CNC Programming

Experience

**CSUN Formula SAE
Drivetrain Team Lead**

Northridge, CA
June 2022 - Present

- Effectively led and collaborated with a team of four individuals, overseeing project timelines and facilitating open communication to ensure successful completion of tasks and project objectives
- Created custom Excel calculators using Visual Basic for Applications to efficiently solve complex vehicle design problems, providing a streamlined method for achieving desired results by easily adjusting input values.
- Designed, fabricated, and tested the chain drive components on the CSUN Formula SAE vehicle, resulting in improved performance and reliability.

**CSUN Formula SAE
Manufacturing Team Lead**

Northridge, CA
June 2022 - Present

- Proficient in utilizing ESPRIT CAM software to program CNC machines and optimize toolpaths for increased efficiency and reduced production time
- Designed and implemented a streamlined manufacturing order system that revolutionized the way teams placed and fulfilled orders, resulting in increased efficiency and productivity.
- Developed and deployed a task distribution platform that seamlessly allocated tasks to fellow team members, reducing the workload and ensuring timely delivery of components.

**ASME NASA MINDS
Mechanical Design Team**

Northridge, CA
Aug 2021 – May 2022

- Collaborated with the mechanical design sub-team to create a 3D model of the chassis for a 1U CubeSat as part of the ASME Student Design competition using Solidworks.
- Conducted Finite Element Analysis (FEA) and produced prototypes for the CubeSat chassis design.
- Collaborated with other sub-teams to successfully prototype their designs by utilizing 3D printing technology to manufacture the CubeSat chassis.

Miscellaneous

Language: Fluent in Spanish and English (US Citizen)

Certificates:

- Lean Six Sigma Foundations – Issued on: Sep 2021 by LinkedIn
- Mechanical Design – Associate, Issued on: Dec 2019 by Dassault Systemes