

Brayan Gonzalez

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Education

California State University, Northridge
Undergraduate, Mechanical Engineering
- Expected Graduation Date: May 2023

Northridge, CA
2017 – Present

Pasadena City College
Undergraduate, Mechanical Engineering

Pasadena, CA
Aug 2015 - Jun 2017

Experience

**CSUN Formula SAE
Drivetrain/Manufacturing Lead**

Northridge, CA
June 2022 - Present

- Coordinated a team of four to design, prototype, manufacture, and test the drivetrain components of a Formula SAE Vehicle
- Applied Lean Six Sigma principles in the workspace to increase efficiency and minimize waste
- Used Esprit Cam software and operated a HASS VF4SS CNC to manufacture parts for the team
- Used OptimumLap to study the vehicle dynamics of the powertrain to achieve performance and reliability in vehicle

**CSUN Formula SAE
Volunteer**

Northridge, CA
Jan 2022 – June 2022

- Assisted the 2021-2022 Formula SAE team in any tasks needed such as creating parts on Solidworks for the car, making drawing to be sent for machining, and handle their 3D printing operations
- Responsible of 3D printing parts out of different materials such as PLA, PETG, PC/ABS, and Nylon-X
- Printed large prints out of Nylon-X for the engine sub-team and Wing inserts for the Aerodynamics sub-team
- Responsible for maintaining and calibrating different style of printers. E.g.: Prusa I3 Mk3, Ender 3 v2, Raise3D Pro 2 Plus

**ASME NASA MINDS
Mechanical Design Team**

Northridge, CA
Aug 2021 – May 2022

- Worked in the mechanical design sub-team for the ASME Student Design to 3D modeled the chassis for a 1U CubeSat
- Responsible for Finite Element Analysis and Prototyping the CubeSat Chassis
- 3D printed the chassis which allowed other sub-teams to prototype their designs

Skills & Interests

Hobbies:

3D Printing

Printers familiar with: Ender 3 Pro, Ender 3 V2, Prusa I3 MK3, Raise3D Pro 2 Plus

Software:

- Solidworks and Finite Element Analysis, ESPRIT, Python, HTML, CSS, VBA, MATLAB, Optimum Lap

Language: Fluent in Spanish and English

Certificates:

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