



Santiago Flores Lopez

Mechanical Engineer

Profile

I'm a mechanical engineer specializing in product and system design, with a strong foundation in structural analysis, manufacturing, and prototyping. My work spans from automotive components and consumer products to technical process improvements. I enjoy solving complex problems through design, and turning concepts into things you can actually build.

I bring a multidisciplinary mindset, practical design sense, and a track record of taking projects from sketch to shop floor. I've worked in engineering teams, international environments, and cross-functional collaborations. I also happen to enjoy good CAD models, clean technical drawings, and making design decisions based on real-world constraints.

Employment History

Supply Chain Quality Assurance Intern at Procter & Gamble, Mexico City

January 2024 — August 2024

- Led technical improvement initiatives in digital QA systems, developing systems that were implemented in all of Latin-America.
- Conducted root cause analysis and to identify inefficiencies across multiple markets, contributing to technical risk mitigation.
- Developed a data integrity campaign that raised awareness in all sites in Mexico and some in the rest of Latin-America.

Head Engineer of Controls, Cockpit & Safety at UNAM Motorsports, Mexico City

July 2022 — August 2023

- Designed safety-critical automotive components (steering, pedals, restraints).
- Used CAD and FEA to validate mechanical performance.
- Managed manufacturing and testing processes within strict timelines.
- Led a multidisciplinary team in a high-pressure, international competition environment.
- Took ownership of the design process from concept to testing and validation, ensuring compliance with safety and performance standards.

Address

Mexico City

Email

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Site

[My personal website](#)

Languages

English - Native
Spanish - Native
Italian - B1
German - A2
Dutch - A2

Skills

CAD Modelling (parametric)
3D Printing
CNC Machining
Laser Cutting
Water Jet Cutting
Finite Element Analysis (Ansys)
Engineering Judgements
Static Load Design
Injection Moulding
Design for Assembly
Design for Manufacturing
Composite Parts and Materials
MATLAB
Excel (Advanced)
Technical Documentation

Technical & Medical Interpreter at Propio Language Services, Mexico City

September 2021 — December 2023

- Interpreted technical and healthcare content in high-stakes conversations, breaking down language barriers between stakeholders.
- Developed advanced communication and real-time problem-solving skills.

Education

Rijksuniversiteit Groningen, Groningen

Student Exchange Program

August 2024 — February 2025

- Courses in Innovation Strategy, Modelling and Simulation, Production Planning, and Group Dynamics.
- Developed international collaboration skills in a multicultural, interdisciplinary setting.

Universidad Nacional Autónoma de México, Mexico City

BEng Mechanical Engineering

August 2019 — June 2025

- GPA: 9.60/10
- 5-Year Degree equivalent to BSc + MSc in European Framework.
- Advanced coursework in Mechanical Design, Manufacturing and Materials Engineering.

Certificates

IELTS, (Oct 2023 – Oct 2025)

- Score: 8.5 (C2 Proficient)
- Certificate ID: 23MX001186FLOS927A

Certificate of English: Advanced, Cambridge

- May 2016
- Accreditation number: 500/2598/3