Fernando Javier Jiménez López

Saltillo (25080), Coahuila México | tel.+52(844)-881-8314
e-mail: fernando.jilo01@gmail.com
LinkedIn: www.linkedin.com/in/fernandojilo
Portfolio: https://www.fernandojimenezl.com/

Education

Tecnológico de Monterrey, Campus Monterrey (2022 - Present)
B. S Mechatronics Engineering.
Specialized in Mechanical Design
Estimated graduation date: December 2026.
Monaghan Collegiate School, Corlat Monaghan. Ireland September-July 2020-2021 International year program.
Colegio Ignacio Zaragoza, Saltillo, Coahuila 2019-2022 High School. GPA 4. (95)
Fremdsprachen-Institut Colón GmbH & Co KG Hamburg, Germany, June-August 2024.

Key skills

Certifications: CSWA **(Certified SolidWorks Associate in Mechanical Design)** XpertCAD 2023. **Foundational MATLAB** MathWorks 2023, CSWP **(Certified SolidWorks Professional in Mechanical Design** XpertCAD 2024. **A2 Goethe-Zertifikat.**
Courses: ASME Y14.5-2018-GD&T Fundamentals, Preparation for CSWA, Preparation for CSWP, Introduction to ANSYS Fluent, MATLAB Onramp, MATLAB Fundamentals, Simulink Onramp, Simulink Fundamentals, Simscape Onramp. Solidworks Surfaces, Solidworks Multibody, Matrices and Symmetry in Assemblies
Language: Spanish (Native Language), English (Advanced), German (Beginner)
Mechanical Design: SolidWorks, Fusion 360, GD&T.
Programming: MATLAB, C+, C++
Mechanical Simulations: FEA analysis via SolidWorks and Ansys Mechanical, CFD analysis via SolidWorks and Ansys Fluent
Manufacture technics: CNC Milling machining, Conventional milling, Sheet metal press, Plasma cutting, Laser cutting, Lathe machining, 3D Printing (PLA, ABS, Fiber reinforce plastics, resin, TPU), MIG Welding and Arc Welding, Resin infusion, Fiberglass Molds, Laminated Composites, PET G thermoforming, Composite Materials.

Carrer History

TROQUEMSA, Saltillo (2023-2024) Tooling and mechanical design intern.

- Tooling and Die design / mechanical design using SolidWorks.
- Welding fixture design.
- Support the mechanical design team designing the reclining mechanism for Polaris Warrior RZR seat.
- Lever Warrior RZR seat design responsible.
- Die design supporting Warrior RZR seat production line.
- Welding fixture design and development for the Polaris GEM seat project.
- Sheet metal design.
- Manufacturing drawings develop using GD&T.
- CNC Machining manufacturing support line.

Achievements and Cocurricular activities

TEC RACING TEAM MONTERREY campus (2022 - Present)
Shell Eco-Marathon Prototype Battery-Electric

- Chief Design Engineer (2023 - Present).
- Structural Design Department (2022 – 2023).
- Led the design and fabrication of the vehicle, marking the first time of the campus in the Shell Eco-Marathon Americas 2024.
- Coordinated a team of 40 engineering students, ensuring quality and meeting project objectives.

Electraton EV Mexican Championship

- Head of the Chassis Department (2023 - 2024).
  - Led the engineering transition of the chassis from steel to aluminum.
  - Coordinated a team of 10 engineering students, ensuring area objectives and process quality.

Baja SAE

- Manufacturing and Body design department (2023)

Awards and Recognition

- Third Place in Science Application at Ascendion Science Fair 2024
- Outstanding Team Performance at IMOF 2024 (International Mobility of the Future Summit)