



# Franco Rojas Parodi

## Mechanical Engineer

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🐙 GitHub 📁 Portfolio

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in LinkedIn

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### Profile

I am a mechanical engineer from the Polytechnic University of Valencia, graduated with a minor in Machine Design. I have professional experience in engineering design, specifically in industrial machinery design and BIM modeling. I am motivated in developing projects related to industrial and transportation design. I am continuously learning, interested in broadening my horizons, and always eager to face new challenges. I am capable of adding value to any team through adaptability and technical skills. Respectful, committed. Bilingual in English and fluent in French.

### Software Skills

SolidWorks | Autodesk AutoCAD | Autodesk Inventor | Revit | Navisworks | PTC Creo Parametric  
KISSsoft | KISSsys | ZEISS Quality Suite | Blender | Python | HTML | CSS | Matlab | Wolfram  
Mathematica | NI Labview | Ansys Granta EduPack | FESTO FluidSIM | CYPE Arquimedes | LOGO!  
Soft Comfort | Microsoft Office | Microsoft Project | EPANET | MeshLab | Power BI

### Professional Experience

#### MEP BIM Engineer, ENG BIM ☑

Responsible for BIM modeling and coordination in technology infrastructure projects. Currently involved in the a Data Center project for Meta.

Jul 2024 – Present  
Remote

- Development of MEP (Mechanical, Electrical & Plumbing) models and drawings, ensuring compliance with international standards and client requirements.
- Management of clashes and design optimization using advanced BIM tools.
- Focus on the design and coordination of plumbing and mechanical piping systems.

#### HVAC Field Engineer, CYMI ☑

Design and installation of HVAC systems of new mega shopping mall project in Lima (CC Parque La Molina).

May 2024 – Jul 2024  
Peru

- Development of the assembly and installation of HVAC engineering systems, ensuring compliance with project objectives and deadlines.
- Coordination with technical staff and suppliers, performing quality inspections that comply with project standards and international norms.

#### Junior Mechanical Engineer, FMI Peru ☑

In charge of design and manufacturing projects related to the mining industry. Developed planning, analysis, modeling and execution of machine and structure fabrication. Reverse engineering and CAD/CAE software were applied.

Aug 2023 – Jan 2024  
Peru

- Conducted structural strength analysis, achieving more robust and efficient redesigns.
- Employed new reverse engineering technologies for the redesign of highly complex parts.

## Education

**Bachelor's Degree in Mechanical Engineering,**  
*Polytechnic University of Valencia*

Sep 2019 – Aug 2022  
Spain

**Mechanical Engineering Student,**  
*Pontifical Catholic University of Peru*

Mar 2015 – Jul 2019  
Peru

## Courses

<b>Reverse Engineering: ZEISS Quality Suite</b> , training program from GOM Metrology <a href="#">↗</a>	Sep 2023
<b>Data Science: R Basics</b> , <i>online course from Harvard</i> <a href="#">↗</a>	Jun 2023
<b>Python Basics for Data Science</b> , <i>online course from IBM</i> <a href="#">↗</a>	May 2022
<b>Robotics: Elements &amp; Subsystems</b> , <i>on-site course from UPV</i>	Jan 2022
<b>Neumatics &amp; Hydraulics</b> , <i>on-site course from UPV</i>	Jul 2021
<b>Electric Cars: Introduction</b> , <i>online course from TU Delft</i> <a href="#">↗</a>	Sep 2020
<b>Introduction to Aerospace Engineering: Astronautics and Human Spaceflight</b> , <i>online course from MIT</i> <a href="#">↗</a>	Jul 2020
<b>Introduction à l'Astrophysique</b> , <i>online course from EPFL</i> <a href="#">↗</a>	Jun 2020

## Languages

**Spanish** (Native)

**English** (C1 Level - Cambridge First Certificate in English (FCE) | Studied in bilingual school)

**French** (B2 Level - Certificate DELF B2 in Institut Français d'Espagne)

## Projects

**Webiste Development: e-Commerce for 3D Printed Sustainable Products** [↗](#) May 2023

Developed an e-Commerce website, from scratch, using HTML, CSS and JavaScript for the front-end.

Used AI and Python to code with Node.js for the back-end.