

# Jaime Jarauta Gastelu

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## EXPERIENCE

**Engineering Intern**, 06/2025 - 08/2025

**Accenture** - Madrid, Spain

- Developed a Digital Twin using Model-Based Systems Engineering to optimize product design and lifecycle management. Implemented digital transformation solutions and software for companies in the industrial sector.

**Software Engineering Intern**, 09/2024 - 05/2025

**Acerinox** - Madrid, Spain

- Created a Python-driven optimization tool transforming Acerinox's product delivery strategy, refining cost efficiency, time management, and logistics across multiple transport channels (trucks and ships).

**Research Intern**, 05/2024 - 07/2024

**Grupo Antolín** - Madrid, Spain

- Developed an AI solution using large language models (LLMs) for document search and classification, including RAG technology and integration with Microsoft Teams.

**Undegraduate Student Research**, 10/2023 - 06/2024

**University of Illinois** - Urbana-Champaign, United States

- Developed Mountain Car Dynamics Simulator in ROS/Gazebo setup to assess Machine Learning Policies

**Engineering Intern**, 05/2023 - 07/2023

**Enagás** - Madrid, Spain

- Digital Twin development of a Natural Gas transportation grid using Microsoft Power Platform as a redundancy for a SCADA system.

**Software Engineering Intern**, 06/2022 - 05/2023

**ID Logistics** - Madrid, Spain

- Developed a Python-based warehouse operations simulator to optimize "Locus" cobot performance and e-commerce picking processes in distribution centers.

**Research Intern**, 05/2022 - 07/2022

**Endesa** - Madrid, Spain

- Developed a voltage detection system for outdoor switch disconnectors in medium- and high-voltage distribution lines.

## ACTIVITIES AND HONORS

- Member of the Illinois Space Society**, contributing to the *Spaceshot Rocket Program* (2023).
- 1st Prize – IX Hackathon for Smart Industry** (Acerinox, 2024), Comillas Intelligent Industry Chair.
- Satellite Project – "Bishop O'Connell ThinSat 1"** (NASA Collaboration, 2019), NG-11 Mission to ISS.
- Researcher at the University of Illinois**, developing a ROS/Gazebo simulation for ML control optimization (2023–2024).
- Member of the Comillas ICAI Cloister of Students**, representing peers in academic initiatives.

## EDUCATION

**M. Eng** : Industrial Engineering, Expected in 06/2026

**Comillas Pontifical University** - Madrid, Spain

**M. Eng** : Intelligent Industry, Expected in 06/2026

**Comillas Pontifical University** - Madrid, Spain

**B. Eng** : Industrial Engineering, 06/2024

**Comillas Pontifical University** - Madrid, Spain

**Exchange Year** : Industrial Engineering, 05/2024

**University of Illinois** - Urbana-Champaign

**Professional Music Diploma** : Violin, 06/2022

**Arturo Soria Professional Conservatory** - Madrid, Spain

**Professional Music Diploma** : Harpsichord, 06/2021

**Arturo Soria Professional Conservatory** - Madrid, Spain

**9th, 10th Grade**, 06/2018

**Bishop O'Connell High School** - Arlington, VA

## SKILLS

- Python
- SQL
- Microsoft Office
- Solid edge
- Deep learning/Machine learning

## LANGUAGES

**Spanish**: First Language

**English**: C2

Proficient (C2)

**French**: B1

Intermediate (B1)

## CERTIFICATIONS

- TOEFL iBT** – 114/120 (ETS, 2022)
- Drone Pilot License A1/A3** – Open Category UAS/RPAS (EASA, 2022)
- American High School Diploma** – Academica Dual Diploma (2016–2020)