Alvaro Yuste Valles

Process Engineer | AI Developer

Contact

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LinkedIn   GitHub

Skills

GenAI: LangChain, LlamaIndex, RAG, Vector DBs (MongoDB, FAISS)

Big Data + ML: Scikit-learn, TensorFlow, PyTorch

Programming: Python, Java

Automation: AGVs, AMR, SAP ERP/MES

Visualization: Power BI, AutoCAD

Soft Skills: Leadership, Teamwork, Analytical Thinking

Awards

Michelin Award for the best master's thesis 23/24

Certificates

Intro to Computer Science – HarvardX (2024)

Intro to Programming with Python – HarvardX (2024)

Process FMEA (AMFE) – Intertek (2022)

Methods Improvement and Time Measurement – Zadecon (2021)

Lenguages

Spanish   Native

English   +B2 (fluent)

About me

Engineer with a strong background in automation, AI, and industrial operations. I specialize in bridging the gap between technology and execution — from streamlining factory workflows to developing AI-driven tools with real business impact. I'm especially skilled at working cross-functionally, aligning teams around challenges, and translating complex tech into practical solutions. I thrive in environments where innovation, ownership, and people come together.

Experience

Process Engineer   *(Signify - Philips Lighting)*   Mar.2023 - present

- Currently developing **AVA**, an agentic AI virtual assistant powered by RAG systems, to enhance industrial data access and decision-making.
- Led the **industrialization of ClearFlood G2, PUR gasket sealing**, and **battery packer systems**, streamlining production workflows.
- Designed and implemented **automation** and **digitalization** solutions, including **computer vision** systems and poka-yoke strategies to reduce errors.
- Optimized logistics and material flow through **AGV** and **AMR** integration.

AI Researcher   *(CEU San Pablo)*   Jan.2025 - present

- Developing an **AI solution** to **detect** and **classify calcifications in the rotator cuff** using **CNNs** for image analysis and **ML** for diagnostic classification, in collaboration with **radiologists** at **Hospital Universitario Rey Juan Carlos**.

Project Launch Manager   *(Antolin)*   Dec.2022 - Mar.2023

- Led the i**ndustrialization of the leather roof manufacturing process for the Mercedes G-Class**, ensuring high-quality standards and production efficiency

Process Engineer   *(Antolin)*   Jun.2021 - Dec.2022

- Designed, programmed, and implemented material flows using **AGVs**
- Responsable of automatic cutting processes with **ZUND CNC machines.**

Education

Master's in Artificial Intelligence & Big Data

Universidad CEU San Pablo   Sep.2024 - Ongoing

Best Academic Record

Master's in Logistics

Universidad de Valladolid   Sep 2022 - Sep.2024

Awarded the Michelin Prize for Best Master's Thesis in Process Organization

Bachelor's in Industrial Electronics and Automation Engineering

Universidad de Valladolid   Sep 2017 - Jun.2022