

Joseba Egia Larrinaga

Project Manager IIoT | IT/OT Integration | MES & MOM |

Industry 4.0

Lasarte-Oria, Basque Country (ES)

✉ josebaegia@protonmail.com 📞 +34 616 66 28 98

🌐 <https://www.linkedin.com/in/joseba-egia-larrinaga/>



SUMMARY

Industrial Management Engineer with 10+ years of experience leading Industry 4.0, IIoT, and digital transformation initiatives across sectors like automotive, steel, and food production. Passionate about solving complex industrial challenges through the application of advanced technology. I'm a fast learner and efficient executor who thrives in roles requiring both strategic thinking and hands-on leadership. Outside of work, I explore emerging tech and home automation through personal DIY projects, which I document in my personal blog.

SKILLS

Industrial Management

advanced
Project management,
Industrial processes,
Logistics,
Warehouse management,
ERP, MES, MOM,
Traceability, Energy efficiency

Industrial IT

advanced
IIoT, M2M integrations,
Cybersecurity,
Radio frequency, Networking,
Visual data

Tools & Protocols

master
Jira, OpenProject, Notion,
Grafana, PowerBI,
AnythingLLM, Node-RED,
InfluxDB, OPC-UA,
ModbusTCP,
S7 communication,
API (REST & SOAP), MQTT,
Docker, Tailscale

Programming & Integration

intermediate
ABAP (SAP), Figma, Cursor,
Data structuring,
API design and documentation,
System integration,
Edge-cloud architecture

Soft Skills

advanced
Technical leadership,
Fast learning,
Cross-functional coordination,
Public speaking,
Client engagement,
Product strategy

WORK EXPERIENCE

Jan 2024 - Current

Project Manager – Industry 4.0 / IIoT at Alhona Smart Industry

📍 Full remote, (ES) 🌐 <https://alhona.com/>

Leading IIoT and digital transformation projects across automotive and renewable energy sectors.

- Led Industry 4.0 and IIoT implementations for Tier 1 automotive, paper & packaging, and wind energy leaders, covering requirements, traceability, and system integration.
- Defined automation and AI models to optimize control room operations for a global O&G leader, extending PLC capabilities and automating production workflows.
- Managed full project lifecycle including requirements gathering, architecture design, vendor coordination, deployment, training, and client adoption.
- Implemented private LLM solutions for project management, proposals and technical documentation, designed mockups in Figma, and built custom microapplications with Cursor to accelerate proof-of-concepts and automation.

Jan 2024 - Aug 2024

Associate Professor – Industrial Electronics at University of the Basque Country

📍 **Donostia-San Sebastián, (ES)** [🔗 https://www.ehu.eus/es/](https://www.ehu.eus/es/)

Part-time academic role in higher education, focused on industrial electronics and applied technology.

- Taught undergraduate courses in industrial electronics, focusing on real-world applications and modern industrial technologies.
- Supervised and mentored students during their final-year internships and capstone projects.

Mar 2021 - Dec 2023

Project Manager – IIoT / MES & MOM / R&D at Mondragon Sistemas de Información Grupo S. Coop.

📍 **Andoain, (ES)** [🔗 https://www.msigrupo.com/](https://www.msigrupo.com/)

Led technical product strategy and implementation of Industry 4.0 platforms across multiple industrial sectors.

- Led the definition and implementation of an industrial platform, from IIoT architecture and protocol connectors (Node-RED, OPC-UA, Modbus, MQTT) to MES/MOM core functionalities.
- Defined data structures, APIs, and dashboards ensuring semantic consistency and smooth integration with ERP and external systems.
- Acted as technical lead in client-facing events and contributed to EU R&D projects in AI, process optimization, and traceability.

Oct 2016 - Mar 2021

IT/OT Project Coordinator – MES / SAP / Industrial IT at Iparlat / Kaiku Group

📍 **Donostia-San Sebastián, (ES)** [🔗 https://www.iparlat.com/](https://www.iparlat.com/)

Coordinated MES and industrial IT systems across multiple production plants in Spain and Chile, leading digitization efforts and IT/OT integration.

- Coordinated MES and SAP-based digitalization initiatives across plants in Spain and Chile, including downtime tracking, quality checks, and traceability.
- Implemented machine connectivity and real-time monitoring using industrial IoT tools, aligning IT/OT systems with business processes.
- Provided SAP WM and logistics support (including ABAP), and deployed cybersecurity and infrastructure monitoring solutions.

Sep 2013 - Oct 2016

Technology Lab Engineer – Digital Fabrication & Public Engagement at CICC Tabakalera – Hirikilabs

📍 **Donostia-San Sebastián, (ES)** [🔗 https://www.tabakalera.eus/es/medialab/](https://www.tabakalera.eus/es/medialab/)

Managed the technical setup and operations of Medialab Hirikilabs, a public digital fabrication lab supporting innovation, education, and creative projects.

- Set up and managed a public digital fabrication lab, including equipment procurement, space design, and technical support.
- Led training programs and public engagement through workshops, exhibitions, and science dissemination activities.

Jun 2012 - Sep 2012

Junior Traceability Technician at Iparlat / Kaiku Group

📍 **Donostia-San Sebastián, (ES)** [🔗 https://www.iparlat.com/](https://www.iparlat.com/)

Provided short-term technical support in traceability systems during a substitution period.

- Offered telematic support for SAP WM and traceability systems for industrial plants in Spain and Chile.
- Maintained RF equipment and supported operations in industrial labeling and robotic warehouses.

CERTIFICATES

Jun 2025

Node-RED: Advanced | Node-RED Academy (FlowFuse)

[🔗 Certificate](#)

Jan 2022

EFSET English Certificate – C2 Proficient (86/100) | EF Standard English Test (EF SET)

[🔗 Certificate](#)

Jan 2022

Machine Learning in Industry 4.0 | EuroCC Austria

[🔗 Certificate](#)

Jan 2009

EGA – Certificate of Aptitude in Basque Language C1 | Basque Government – Dept. of Education

[Certificate](#)

EDUCATION

Sep 2011 - Dec 2014

Master equivalent (2nd cycle) Industrial Management Engineering at University of the Basque Country – Gipuzkoa School of Engineering

📍 **Donostia-San Sebastián (ES)**

Sep 2006 - Jun 2010

Bachelor Industrial Electronic Engineering at University of the Basque Country – Gipuzkoa School of Engineering

📍 **Donostia-San Sebastián (ES)**

PROJECTS

Jan 2022 - Dec 2023

s-X-AIPI – Self-X AI for Process Industry

Development of AI-driven decision support systems for anomaly detection and scrap optimization in steel manufacturing.

Jan 2021 - Dec 2022

Capri – Cognitive Automation Platform for Process Industry

Development of a digital twin for steel bar production with simulation and AI integration.

Jan 2021 - Dec 2022

CIRMET – Energy Optimization in Intensive Industries

Implementation of IIoT and analytics systems to optimize energy and resource use in the cement and water sectors.

Jan 2022 - Dec 2024

OpenZDM – Zero Defect Manufacturing

Analytics platform for zero-defect production in glass manufacturing.

Jan 2021 - Dec 2023

RePlasTIC – Digital Platform for Plastic Injection Molding

Platform to enhance efficiency, quality, and sustainability in plastic injection molding (automotive sector).

Jan 2021 - Current

firstcommit.dev

Personal blog and lab focused on DIY tech projects, home automation, and IoT experimentation.

Jan 2013 - Dec 2014

Landazale

Startup project for zero-mile produce distribution using IoT-enabled lockers and electric vehicles.

PUBLICATIONS

May 2022

Digital Twin-enabled Application Architecture for the Process Industry at ENASE 2022 – 17th International Conference on Evaluation of Novel Approaches to Software Engineering

Modular software architecture for integrating diverse industrial applications using Digital Twins. Demonstrated in steel manufacturing, it enables unified data access and supports AI, simulation, and visualization tools.

[Publication](#)

VOLUNTEER

Jan 2011 - May 2011

Volunteer Sales Assistant at Intermón Oxfam

📍 **Dublin, (IE)**

Supported daily operations in a second-hand charity shop in Dublin, assisting customers and managing donated items as part of a multicultural volunteer team.

Sep 2009 - Jul 2015

Member, then President at Dinitek Junior Empresa

📍 **Donostia-San Sebastián, (ES)**

Led and participated in various roles in a university-based junior company focused on technological innovation such as 3D prototyping, electronics, and mechanical design. Organized and promoted university-wide tech competitions and workshops.

LANGUAGES

Basque

Native speaker

Spanish

Native speaker

English

Fluent

REFERENCES

“ I had the pleasure of working with Joseba during the s-X-AIPI project, where he represented MSI Grupo. He played a key role in the technical integration of AI models into the IT/OT architecture of the steel use case. Joseba was responsible for the integration and commissioning of the Self-X AI solutions on site. His ability to manage online integration and validation in a complex industrial environment was truly impressive. He brought strong technical expertise, communicated clearly across teams, and always took a proactive approach to solving challenges during deployment. His contribution was critical to the success of the online implementation. I would gladly work with him again and highly recommend him for any role involving the integration of AI systems in industrial environments. ”

Zeinab Kargar - Researcher at VDEh-Betriebsforschungsinstitut GmbH

“ I had the pleasure of working with Joseba Egia at MSI Grupo, both on production projects and R&D initiatives, and I can only highlight positive aspects of his work. He is committed, dedicated, and a great team player. What I value most is his attitude toward challenges: rather than avoiding them, he dives in to understand the problem and find the best possible solution. His perseverance and analytical skills were key to many of the projects we shared. A trustworthy professional, without a doubt. ”

Laura Rodriguez Rivera – Sales Consultant Digitalisation at MSI Grupo

“ What defines Joseba is his curiosity and determination. Always eager to explore and learn new things — and on top of that, a pleasure to work with. ”

Aritz Zabaleta Urrosolo – Systems Technician at Tabakalera (Hirikilabs)