MARIAN DÍAZ ROMERO

SYSTEMS ENGINEER

mariandiazrom@gmail.com | (+61) 433 768 024 | Linkedin: mariandiazromero | Visa: Subclass 462 | My Portfolio

*Specialized in **IoT**, **Digital Twin** architecture, and **AI-driven automation**, bridging IT/OT systems and implementing **AI agents** to optimize enterprise functions through modern, scalable solutions. Strong technical background with a **business** perspective.*

PROFESSIONAL EXPERIENCE

NTTData | *Technology Advisory Consultant – IoT & Digital Twins*

Madrid, Spain
Apr 2025 – Jul 2026

- Developed **AI agents from scratch** to automate complex team workflows, increasing operational efficiency and reducing manual task overhead.
- Designed and implemented **Digital Twin and IoT solutions** within industrial IT/OT environments.
- Developed front-end and back-end components for real-time monitoring applications.
- Implemented **MQTT** and **OPC UA** protocols to enable reliable data exchange between edge devices and cloud platforms.
- Designed automation and orchestration flows using **Node-RED.**
- Deployed services with **Docker Compose**, ensuring scalable and consistent environments.
- Contributed to initiatives within the **Digital Twin Consortium**.

ISDI | *Collaborating Lecturer Digital MBA (Part-Time)*

Madrid, Spain
Jan 2026 – Jun 2026

- Lecturer in the Technology module of the Digital MBA (DMBA), covering Digital Transformation, emerging technologies, and enterprise innovation frameworks.

Accenture | *Technology Consulting Analyst – Cloud & Migration*

Madrid, Spain
Nov 2023 – Apr 2025

- Modernized legacy **Mainframe/Micro Focus** environments, supporting transition to cloud-based architectures.
- Analyzed and refactored **COBOL** and JCL logic to enable scalable and maintainable solutions.
- Developed automation tools in **Python** to optimize data validation and migration processes.
- Implemented **Infrastructure as Code** (IaC) for consistent and repeatable deployments.
- Applied **DevOps methodologies** to support end-to-end cloud transformation initiatives.

CERTIFICATIONS

Credly link

- **TOGAF®** Enterprise Architecture Foundation – The Open Group — *Sep 2025*
- Digital Cloud Transformation Program – ISDI Business School (Madrid) — *Sep 2023-Nov 2023*
- Micro Focus COBOL Fundamentals Certificate – AMC — *Jan 2023*
- Foundation Learning for Application Lifecycle Management (ALM/QC) Certificate – ALM01F — *Nov 2023*

ACADEMIC INFORMATION

Master's Degree in Telecommunication Engineering | Comillas Pontificia University, ICAI — **Madrid, Spain** *Sep 2021 – Jun 2023*

- Exchange Program – Universidad Pontificia Católica de Chile — **Santiago, Chile** *Jan 2023 – Jul 2023*

Bachelor's Degree in Telecommunication Engineering | ETSIIT — **Granada, Spain** *Sep 2017 – Jun 2021*

- Exchange Program – Linköping University, Sweden — **Linköping, Sweden** *Sep 2019 – Jul 2020*

TECHNICAL CAPABILITIES

- **Cloud & Platforms:** AWS, GCP (Spanner, Cloud Functions).
- **Software Development:** Python, JavaScript (React, Node.js), AI Agents, LLMs, SQL.
- **IoT & Industrial Connectivity:** Digital Twin Architecture, MQTT, OPC UA, Node-RED, MongoDB, Mosquitto, N3uron.
- **DevOps & Tools:** GitHub, Jenkins, Docker, Postman, Figma, JIRA.
- **Frontend & 3D Visualization:** React, Vite, CesiumJS, Three.js, ApexCharts.

CORE COMPETENCES

- **AI Implementation & Automation:** optimizing functions and making processes more efficient.
- **Enterprise Architecture:** Framework design and governance using TOGAF standards.
- **Digital Transformation Strategy**: Translating emerging technologies (IoT/AI) into business-driven solutions.
- **IT/OT Convergence**: Integrating industrial environments with modern IT cloud solutions.