

Marco Mongi

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Work Experience

Ascentio Technologies

Río Cuarto, Argentina

Product Owner, Systems Engineer

July 2022 – July 2025

- **Managed teams** of up to 10 people as **Product Owner** and **Systems Engineer**, leading the Technological Infrastructure and Science Data Processing subsystems of the SABIA-Mar satellite mission.
- Launched the company's **artificial-intelligence division**, transferring expertise to the team and enabling the acquisition of new clients in computer vision and Industry 4.0.
- Led end-to-end a **computer-vision production-control system** for an industrial plant, covering design, production rollout and ongoing maintenance. The solution blends multi-object detection and tracking, edge computing, IoT protocols and real-time dashboards, enabling performance and efficiency monitoring.
- **Implemented** over 20 improvements to the L0 processor of the SABIA-Mar satellite mission in Python, fulfilling client-required functionalities within a 3-month timeframe.

Ascentio Technologies

Río Cuarto, Argentina

Intern

September 2020 – December 2020

- Developed a platform for **automatic crop detection** in Python, achieving 80% accuracy using supervised classification algorithms applied to time series of multi-spectral satellite images.

Faculty of Engineering, UNRC

Río Cuarto, Argentina

Intern

2018 – 2019

- Contributed to the project "Improving university campus accessibility – Hearing loops", implementing **systems to enhance hearing** for people with impairments.

Education

Stanford University

Online

Machine Learning Specialization

2025

National University of Córdoba / MundosE

Córdoba, Argentina

University Diploma in Data Science

2024

National University of Río Cuarto (UNRC)

Río Cuarto, Argentina

Telecommunications Engineering, Radiocommunications Orientation. GPA: 8.71

2013 – 2022

COURSES AND CERTIFICATIONS

2025 | EF SET English Certificate | EF SET | C2 Proficient

2025 | Gen AI Intensive Course | Google / Kaggle

2024 | Introduction to Statistics | Stanford University

2017 | **First Certificate in English** | University of Cambridge | Grade A (C1)

Additional courses on LinkedIn profile.

Skills

TECHNICAL SKILLS

- **Python** (OOP, NumPy, Pandas, Scikit-learn, pytest, FastAPI, CI/CD).
- Databases: **SQL**.
- **Machine Learning & AI**: supervised/unsupervised models, reinforcement learning; time-series forecasting; deep learning with PyTorch and Keras/TensorFlow; LLMs; generative AI & prompt engineering.
- **Computer Vision**: object detection and segmentation, OpenCV, digital image processing, remote sensing imagery, GIS.
- **Data Engineering**: ETL pipelines and Apache Airflow orchestration.
- **Data Visualisation & Dashboards**: Tableau, PowerBI, Grafana.
- **Web/UI Prototyping**: Gradio, Streamlit.
- **Systems Design**: scalable Industry 4.0 and satellite applications (frontend, backend, databases).
- **Product & Project Management**: Agile/Scrum (JIRA), Product Ownership, Product Management.
- **Documentation & Reporting**: LaTeX, academic writing.
- **Operating systems**: Windows & Linux.
- **Public speaking & training materials** (English/Spanish); effective communication.

SOFT SKILLS

- **Product vision** and strategic **roadmap** definition.
- **Backlog** management and feature prioritization.
- **Effective stakeholder communication**, expectation management and negotiation.
- **Effective communication of technical concepts** to non-technical audiences.
- **Cross-functional leadership and coordination**, fostering teamwork.
- Risk, scope, resource and budget **management**.
- Systems analysis and evaluation; **KPI**- and **OKR**-driven decision making.
- **Continuous improvement and innovation** of processes, products and working methods.
- **Mentoring**, knowledge transfer and peer reviews.
- **Customer-centric** focus.
- **Emotional intelligence** and empathic collaboration.
- **Critical and analytical thinking**, complex problem solving.
- **Time management** and high-quality delivery under pressure.
- **Continuous learning and adaptability** to change.

Presentations and Recognitions

PRESENTATIONS

- 2024 | **Presenter** at the Infopork Swine Innovation Forum, presenting how artificial intelligence transforms the agro-industry and its challenges.
- 2023 | **Presenter** of systems in charge to stakeholders during the Critical Design Review of the SABIA-Mar mission (MCDR), evaluated by experts from institutions like NASA, CNES, AEB, and INPE. The presentation was in English, reviewing the satellite's science data processing systems (L0 Processor) and generated product publication.

Languages

- **Spanish**: Native
- **English**: C1 (ESOL) / C2 (EF SET)