

Marco Mongi

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Summary

Computer Vision and Systems Engineer with 3 years delivering end-to-end industrial production-control solutions. Skilled in Python, OpenCV, detection/tracking/segmentation, and edge/IoT deployments with real-time dashboards. Cross-functional collaboration; English C1/C2.

Work Experience

Ascentio Technologies

Río Cuarto, Argentina

Product Owner, Systems Engineer

July 2022 – July 2025

- Led infrastructure and science data processing for **SABIA-Mar**; managed cross-functional teams (up to 10).
- Founded the AI division, mentoring engineers and enabling new client work in **computer vision** and Industry 4.0.
- Delivered an industrial production-control system with **multi-object detection/tracking, edge computing (IoT/MQTT)**, and **real-time dashboards**.
- Implemented 20+ Python enhancements to the **SABIA-Mar** L0 processor within 3 months.

Ascentio Technologies

Río Cuarto, Argentina

Intern

September 2020 – December 2020

- Built a **Python** platform for automatic crop detection (**supervised classification** on time-series **multippectral satellite imagery**), achieving **80% accuracy**.

UNRC

Intern

2018 – 2019

- Hearing loop accessibility systems.

Education

Stanford University

Online

Machine Learning Specialization

2025

National University of Córdoba / MundosE

2024

University Diploma in Data Science

National University of Río Cuarto (UNRC)

2013 – 2022

Telecommunications Engineering

GPA 8.71

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 | Cambridge First Certificate in English (C1) | Cambridge | Grade A

Skills

Computer Vision: object detection, segmentation, tracking; OpenCV.

Deep Learning: PyTorch; TensorFlow/Keras.

Python & Data: Python (NumPy, Pandas, OOP); SQL; Scikit-learn.

MLOps & Deployment: CI/CD (GitHub Actions); Docker; FastAPI; testing (pytest, unittest; Robot/Behave); edge deployment; production integration.

Pipelines: ETL; Apache Airflow.

Cloud: AWS, GCP.

Visualization: Grafana; Power BI.

Methods: Agile/Scrum (JIRA); Product Ownership; systems design.

Languages

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

Projects

- Computer Vision: real-time license plate detection/tracking (YOLOv8, DeepSORT, OCR); blood cell counting with detection+segmentation (YOLO + SAM2).
- Pipelines & MLOps: Apache Airflow ETL; real-time anomaly streaming (TIG stack).

Presentations

- 2024 — Presenter at Infopork Swine Innovation Forum on AI in agro-industry.
- 2023 — Presented SABIA-Mar data processing at Mission Critical Design Review (MCDR) to stakeholders incl. NASA, CNES, AEB, INPE.

Awards

- 2024 — Winner, Datathon Río Cuarto (LLM chatbot ETL improvements)