

Marco Manfrin.

HMI Developer · Computer Engineering & AI Student

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01 PROFILE

I build human-machine interfaces for industrial robotics and automation at Sistec AM, and study Computer Engineering & Artificial Intelligence at Epicode Institute of Technology. By day I write the software operators touch — interfaces for press brakes and robot cells; by night I experiment with machine learning. Long-term goal: aerospace software.

02 EXPERIENCE

HMI Developer — Sistec AM

FEB 2023 — NOW

Operator interfaces for press brakes and robotic cells — industrial robotics & automation.

Intern — Sistec AM

2022 — 2023

Six months alongside the development team, learning the machines and the codebase.

03 EDUCATION

BSc Computer Engineering & Artificial Intelligence

2024 — NOW

Epicode Institute of Technology

Artificial Intelligence & Data Analytics

2023

University of Trieste

Scientific high school, applied sciences

2018 — 2023

LSS Leonardo da Vinci — plus biotechnology extra course (2020 — 2023)

04 SELECTED PROJECTS

SafanDemo · C# / .NET

CLI simulator and client for a Safan press brake — machine state and command protocol.

AdoptionOfAgenticAi · Research

Analysis of agentic AI adoption in software development and office work.

ComputerVisionProject · Python / ML

Comparative study of four approaches to plant disease classification (PlantVillage).

DungeonsExplorer · Java

Text adventure built as a clean OOP class hierarchy, for a university exam.

05 SKILLS

LANGUAGES	C#, C++, Python, Java, PHP, JavaScript, SQL, HTML, CSS
FRAMEWORKS & UI	.NET, WPF, WinForms, React, Bootstrap
AI & ML	PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, Jupyter, Claude Code
INDUSTRIAL	OPC UA, Modbus
DEVOPS & TOOLS	Git / GitHub, GitHub Actions, Docker, Linux, Grafana, Prometheus, Sentry, MinIO

06 LANGUAGES

ITALIAN	Native
ENGLISH	Professional working proficiency