



Dylan Cop

AI Engineer & Systems Developer

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PROFILE_OVERVIEW

I build the nervous system of factories. I specialise in the **orchestration of agentic systems** and in integrating complex architectures with **enterprise ERP (Odoo)** and **IoT production flows via Modbus and OPC UA**. I combine solid software-engineering foundations with the strategic use of the latest AI tools (MCP, Agentic Workflows) to turn technical complexity into pure efficiency for Industry 4.0 and 5.0.

dylan_stack.json

```
{
  "ai_core": ["LLMs", "Multi-Agent",
    "Computer Vision"],
  "dev": ["Python", "JavaScript", "SQL"],
  "industry": ["Odoo ERP", "IoT", "Modbus",
    "OPC UA"],
  "ops": ["Claude Code", "Docker", "Linux"]
}
```

100%

DATA AUTOMATION

EDUCATION

Diploma SIA
Business Information Systems

I.S.I.S Paolo Sarpi
[82/100]

LANGUAGES

IT Native
EN Technical

CERTIFICATIONS

Microsoft AI Optimization 2026

IBM Software Engineering 2025

ACTIVE_RESEARCH_NODES

- **Model Context Protocol**
Standard MCP integration for AI.
- **Agentic Workflows**
Orchestration with Cursor, Claude Code and Make.

AUDIO_ENGINEERING

- > **Instrumental Logic**
Piano, guitar and drums. Pop, Funk and R&B patterns.
- > **Digital Production & AI**
FL Studio, Waves Plugins and AI generation with Suno.

QUASER S.R.L.

IT Developer & AI Engineer / Pasiano di PN

Dec 2021 – Present

I run the company's technology infrastructure and lead its digital innovation, focusing on AI solutions and on automating production processes (Iper Ammortamento tax incentive, Industry 4.0/5.0).

Multi-Agent & LLM

- Designed and built from scratch a conversational AI framework (web and local).
- Advanced implementation of the Model Context Protocol (MCP) and structured prompting for smooth interaction with the enterprise information system.

IoT & Odoo Integration

- Developed custom full-stack modules (Python, JS, XML) to connect Odoo to hardware.
- Connected injection-moulding machines via Modbus and OPC UA (100% production-data automation).

Machine Learning (CV)

- Conceived and built a Proof of Concept (PoC) for automatic anomaly detection.
- Reduced quality-control times on plastic components on the line.

IT & DevOps Management

- Sped up the development cycle by orchestrating tasks with Google Antigravity & Claude.
- Full administration of network infrastructure, servers and security.

PAST_EXPERIENCE

Comune di Azzano Decimo

May – Jun 2019

IT Support & Data Management (Internship)

- Designed a database to catalogue events and managed the institutional WordPress CMS.
- Improved internal document workflows.

CREATIVE_ROUTINE

System Architecture & Music Logic

I consider software development and music composition part of the same analytical spectrum. I combine the rigour of algorithms and AI prompts with rhythmic harmony, creating structured mental patterns that I transfer directly into my code.