

Federico Bonino

Applied AI & Automation Consultant — building an independent practice for AI solution discovery, business automation and practical training, backed by long experience in Linux infrastructure, edge systems and production operations.

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PROFILE

I got here from the physical layer. Electronics and C first, then a long relationship with GNU/Linux, then eleven years keeping a 24/7 live television signal on air — where the failure is already on screen and the time budget is the length of the incident. That is still the standard I hold a system to: it has to survive being left alone, and someone who did not install it has to be able to operate it.

At AlterMundi — a twelve-person organisation building free infrastructure for community networks — I ran the infrastructure, helped stand up an independent Autonomous System, and architected SAI, a wildfire early-detection pilot whose edge nodes watched the Córdoba hills unattended for months. Across those systems I keep architecture, constraints, review, verification, deployment and operation explicit.

I am now building an independent applied-AI practice focused on researching the right solution before building, automating business processes, and practical AI training. The proposition is new; the engineering record behind it is not.

SELECTED WORK

Technical lead — infrastructure and deployed systems — [AlterMundi](#)

Technical lead • 2024-06 – 2026-08

Led technical direction across AlterMundi's production infrastructure and field-deployed systems: brought its infrastructure into an inventoried, documented operating model and established shared architecture, review and verification conventions. Twelve-person collaborative organisation, no direct reports. Cycle concluded August 2026.

Infrastructure-as-code and operations

Design, infrastructure-as-code and operations • 2026-02 – 2026-08

Infrastructure-as-code and day-to-day operations for AlterMundi's services on three hosts — a Proxmox VE 9 primary, a legacy PVE/BGP gateway and a public inference host — and about fifteen LXC containers, described in a machine-readable inventory that is the source of truth. Firewall, networking and secrets conventions, backup and restore runbooks, post-mortems, an infrastructure review and a phased hardening plan out of it. Left operable by people who did not install it.

SAI — distributed wildfire early detection (validated pilot)

Architect and lead developer • 2024-11 – 2026-02

Architect and lead developer of a distributed wildfire early-detection system: edge nodes running computer-vision inference in the field, with fleet management, ingestion and dashboard on top. Three nodes ran continuously for months in Córdoba; field evaluation at the La Rancherita node reached $F1 \approx 0.86$ in situ. The detection model was a specialist's work; I built and operated the system around it — edge fleet, ingestion pipeline, inference service and dashboard. My work on the funded pilot concluded when its funding cycle ended. AGPL-3.0.

Code: [sai-cam](#)

44Mesh — independent Autonomous System with BGP peering

Main contributor — border router and mesh · 2025-11 – 2026-07

Tooling and runbooks to operate an independent Autonomous System: announce an IP block to the Internet via eBGP from a border router, join distributed nodes over a ZeroTier mesh, and host public services on community-owned addresses. Main contributor alongside three AlterMundi colleagues.

Code: [44mesh](#)

Kjarabót + Skattaskýr — Icelandic labour and tax clarity (pilot) — Independent project

Concept, architecture and implementation · 2026-06 – present

Citation-first case-building assistant for workers in Iceland: answers only from a versioned authoritative corpus, delegates wage and tax arithmetic to Skattaskýr, and says so explicitly when authority or coverage is missing. Pilot: the corpus covers three collective-agreement families; production certification is pending.

Code: skattaskyr.altermundi.net

WhisperAloud — offline voice dictation for Linux — Independent project

Design, implementation and maintenance · 2025-11 – 2026-06

Offline voice dictation for the Linux desktop, built for daily writing rather than demo transcription: a D-Bus daemon owns recording, faster-whisper transcription, SQLite history and clipboard actions; the GTK4 GUI, tray indicator and CLI are thin clients. Built end to end and in daily use as a working tool.

Code: [whisperAloud](#)

TV Technician — live 24/7 broadcast — Canal Showsport S.A.

Staff technician — broadcast operations and reliability · 2011-11 – 2022-12

Eleven years keeping a 24/7 live television signal on air — Cablevisión Flow, provincial cable network and streaming platforms — with no maintenance window, resolving incidents while the signal remained live.

CAPABILITIES

Languages: Python, Bash, C

Infrastructure: Proxmox VE, LXC, systemd, nginx, BGP

AI and tooling: Agent-assisted development workflows (Claude Code), YOLO / Ultralytics deployment on edge

Hardware: KiCad, ESP32

Domains: Linux infrastructure design and operations, Systems software and Linux daemons, Computer vision on edge, Mesh networking and BGP, Embedded systems and electronics, Broadcast reliability

BACKGROUND

Diplomatura Universitaria en Ciencia de Datos, Inteligencia Artificial y Econometría — FAMAF — Universidad Nacional de Córdoba · 2024-03 – 2024-12

Electronic Engineering — undergraduate studies (no degree) — UNC y UTN — Facultad Regional Córdoba · 2005 – 2015-11