



Francisco Porcel Vila

Chief Technology Officer · Enterprise AI, LLM & Agentic Systems

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PROFILE

Technology executive with 25+ years leading engineering organizations, the last three focused on enterprise AI. I architect and ship LLM, RAG and agentic systems that run unattended in production, and I own the infrastructure and security beneath them. A founder four times over, with full P&L and direct advisory experience at C-level, including government institutions.

CORE COMPETENCIES

AI & ML	LLMs, Generative AI, agentic orchestration, RAG, vector search, model routing, evaluation frameworks, cost governance	Platform	AWS and Google Cloud, Linux, Docker, PostgreSQL, event-driven orchestration, high availability, multi-tenant SaaS
Security	Security architecture, threat modeling, penetration testing, AI governance, secure-by-design, OWASP	Blockchain	Bitcoin Core node operation, Lightning, on-chain data engineering, post-quantum cryptography (BIP-360)
Data	Real-time pipelines, InfluxDB, Grafana, observability and SLI/SLO design, time-series forecasting	Leadership	Technology strategy, board and executive advisory, team building, technical due diligence, go-to-market

EXPERIENCE

Founder, CTO & CEO — Optima Quantum

1999 – Present

Barcelona to Dubai | NETPOLE SL (1999) → Optima Devops SL (2021) → Optima Quantum Services FZCO (2024)

One practice, three structures, twenty-six years. Founded in Barcelona delivering IT infrastructure and cybersecurity to companies and public institutions; re-established in Dubai as an AI and cybersecurity firm. IT and security have been the foundation since day one, and AI is what I built on top. The client relationships have outlasted every corporate change.

- Advise executive teams on enterprise AI adoption: where it creates value, where it does not, and what must change.
- Architect production LLM systems: RAG, vector search, agentic workflows, multi-provider routing with cost governance.
- Built and operate a **production RAG system over 1,700+ documents**, plus a semantic memory layer indexing 1,750+ AI conversations, exposed to agents over MCP.
- Developed a **proprietary five-phase security audit methodology** and reusable delivery playbooks applied across client engagements.
- Penetration testing, incident response and vulnerability remediation for private and public sector clients, including **Barcelona City Council**.
- Build and lead engineering teams; run a training platform used to develop technical staff.

Founder & CTO — WhatsIA.io

Apr 2025 – Present

Dubai, UAE | Multi-tenant conversational AI platform

- Designed and deployed a **fleet of 11 autonomous AI agents** running 24/7 as independent services across a full commercial pipeline.
- **143,000+ agent executions** processing **267,000+ records** in 100 days, with per-run instrumentation and multi-provider LLM routing with automatic failover.
- Architected isolated multi-tenant infrastructure, with a dedicated database per client and per-tenant rate limiting. Live in Spain, the UAE and Thailand.
- Built the stack end to end: Go, Python/FastAPI, PostgreSQL, containers, systemd service architecture.
- Took the product from zero to a paying customer base. Full P&L alongside the technical architecture.

Founder & Chief Executive Officer — Weex Bitcoin ATM

Oct 2020 – Apr 2025

Madrid, Spain | Bitcoin ATM network, from concept to market

- Extended and customized the **General Bytes** ATM platform rather than deploying vendor software as shipped.
- Built exchange integration and liquidity management for a network transacting fiat against crypto in real time.
- Owned payment gateways, reconciliation and treasury, plus custody and key management across hot and cold wallets.
- Owned physical and logical security of a distributed terminal network handling live value transfer.
- Full P&L, fundraising and executive team responsibility.

Systems Engineering Lead — Generalitat de Catalunya

Jan 2007 – Dec 2011

Barcelona, Spain | Government of Catalonia, via Colt Telecom

- Ran production infrastructure for **100,000+ user accounts** across the gencat.cat domain.
- Architected a Sun Solaris estate: iPlanet/JES mail and LDAP, Apache, **Sun Cluster high availability**, virtualization.
- Led security engineering: hardening, vulnerability scanning and perimeter security. Monitoring with Nagios and Cacti.

Chief Technology Officer — deseoweb

2011 – 2020

Barcelona, Spain | Concurrent engagement

Technology leadership for companies and Spanish government institutions. Owned information systems architecture, led engineering teams and set technical strategy for high-traffic public-facing platforms.

SELECTED WORK

Optima Quantum

optimaquantum.com

My AI and cybersecurity practice. Enterprise AI advisory, production LLM deployments and security engineering for clients across Europe and the Middle East.

Open source

github.com/optimaquantum

MCP servers and agent skills built to stop AI systems from repeating real production failures. Guardrails for autonomous agents.

WhatsIA

whatsia.io

Multi-tenant conversational AI platform. Autonomous LLM agents in production, multi-provider model routing and isolated per-client infrastructure.

InfoBitcoin

infobitcoin.es

On-chain intelligence platform running on Bitcoin Core nodes I operate, with an autonomous LLM publishing pipeline. Cut operating API cost by 92%.

Languages Spanish and Catalan (native), English (professional), French and Italian (working)

Recognition Google Partner | Published writer on AI and cybersecurity | Mentor at CP'AC

Work authorization Based in Dubai. Open to relocation to the United States and to full-time remote collaboration; would require visa sponsorship.