

FABRICE COLOZZI

Tech Founder & Systems Architect • Former Aerospace Engineer

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PROFESSIONAL SUMMARY

Accomplished technology founder, systems architect, and former aerospace engineer with over 18 years of experience engineering high-performance systems across generative AI, quantitative fintech, and scalable distributed platforms. Co-Founder and CTO of **Mindolog** on iOS and creator of the **Mell-E** real-time emotive companion. Proven trajectory spanning finite-element aerospace analysis, Vice President of Data Reporting at CoinRoutes, institutional quantitative trading systems, and 0-to-1 venture scaling to multimillion-user reach. Specialized in model-agnostic intelligence, sub-second latency streaming dialogue, and zero-knowledge cryptographic privacy.

CORE COMPETENCIES & TECHNICAL SKILLS

- Venture & Technical Leadership:** 0-to-1 Product Incubation, System Architecture Governance, High-Impact Engineering Team Scaling, Capital Efficiency, Strategic Execution.
- AI & Autonomous Systems:** Model-Agnostic Intelligence Engines, Multimodal Perception (Vision & Acoustic), Real-Time Emotive Avatars, Agentic Workflows, Advanced RAG, PyTorch, Deep Learning (Informer, LSTM, RNN).
- Mobile & App Store Deployment:** Full-Lifecycle iOS App Creation, Apple App Store Publishing & Review Orchestration, TestFlight Management, App Store Optimization (ASO), Streaming Audio & Haptic Integration.
- Security & Cryptographic Privacy:** Zero-Knowledge Architecture, End-to-End Encryption (E2EE), Cryptographic Data Isolation, User Data Sovereignty Moats.
- Core Engineering Stack:** Python (Asyncio, Aiohttp), Go, Rust (Foundations), PHP, JavaScript; Django, Laravel, HTMX, Vue.js, React (Foundations); SCSS, Bootstrap.
- Quantitative & Data Systems:** High-Throughput Analytics Pipelines, Microstructure Pattern Recognition, Algorithmic Risk Management, Advanced SQL, Pandas, NumPy, ECharts.
- Cloud & Distributed Infrastructure:** AWS (Lambda, ECS, RDS, S3, EC2), Kubernetes, Docker, CI/CD Automation, Resilient High-Availability Deployments, GitHub Actions.

PROFESSIONAL EXPERIENCE

Co-Founder & CTO

2024 – Present

Mindologue LLC • Miami, FL

- Co-Founded and engineered **Mindolog (Journal, meet Mell-E)** from concept to iOS App Store release, achieving top-tier organic engagement and strong user adoption.
- Architected and developed **Mell-E**, a proprietary real-time emotive AI companion featuring sub-second streaming dialogue, acoustic emotion detection, and synchronized facial expression rigging.
- Engineered a proprietary model-agnostic intelligence engine, abstracting foundation models to prevent vendor lock-in and drastically optimize inference costs.
- Implemented subconscious sketch analysis via computer vision, backed by a zero-knowledge end-to-end encryption (E2EE) data sovereignty moat.

Vice President Data Reporting

2021 – 2024

CoinRoutes Inc • Miami, FL

- Led data reporting and market microstructure analytics, processing millions of institutional financial ticks daily and enhancing executive decision-making speed by 300%.
- Spearheaded research and algorithmic development of high-frequency cryptocurrency market microstructure pattern recognition systems using advanced deep learning (Informer, LSTM).
- Developed quantitative tools to optimize client trading execution strategies and reduce latency in institutional crypto asset management.
- Engineered an automated support intelligence chatbot using LangChain and RAG, elevating support response resolution by 40%.

Founder & Systems Architect

2016 – 2021

FlexxAccess & Digital Platforms • Miami, FL

- Engineered an operations platform for satellite communication equipment, optimizing multi-vendor logistics and reducing operational overhead by 40%.
- Architected OXpro, a high-performance B2B global travel booking and reservation engine with multi-threaded inventory search and supplier API synchronization.
- Built Article, a multi-tenant PropTech SaaS platform automating billing, scheduling, and resident communication, reducing management overhead by 50%.

Founder & CEO (Acquired)

Pioneer Venture

Tuning.fr • France

- Pioneered France's premier automotive enthusiast e-commerce portal, scaling to millions of page views and successful commercial acquisition.

Aerospace Structural & Thermal Engineer

Early Career

Matra Marconi Space • Toulouse, France

- Conducted finite element analysis (FEA), structural modeling, and thermal testing for European satellite and spacecraft programs.
- Instilled aerospace rigor, fault-tolerant system architecture, and mathematical discipline carried into software and AI platforms.

EDUCATION

- **Master of Science (M.S.) in Aeronautics Engineering** • [Ecole Nationale d'Ingénieurs de Tarbes \(ENIT\)](#), France
- **Minor:** Computer Science (Software Engineering, Data Structures, Algorithms)
- **Honors:** Awarded Honorary Citizenship of the State of Tennessee for exceptional academic performance.

RESEARCH PUBLICATIONS & TECHNICAL MONOGRAPHS

- **Edge-Centric Sovereignty: A Privacy-Preserving Framework for Generative AI in Digital Mental Health** • Technical Monograph (DOI: 10.5281/zenodo.18318401, Jan 2026).
- **A Multimodal Affective Computing Framework for Non-Invasive Stress Detection and Regulation** • Technical Monograph (DOI: 10.5281/zenodo.18318106, Jan 2026).
- **Sustainable Edge Intelligence: An Adaptive Thermal Scheduling Architecture for On-Device Generative AI** • Technical Monograph (DOI: 10.5281/zenodo.18317171, Jan 2026).

LANGUAGES & EXECUTIVE LEADERSHIP

- **Languages:** English (Fluent), French (Native) • **ORCID:** 0009-0009-1200-7123.
- **Executive Governance & Ventures:** Served on multiple condominium association boards of directors; designed, engineered, and operated Ozzi Sushi Bar in Downtown Miami (2011–2016).