

Khaled Rekik

Technical Founder | Head of Product / Solutions Architect | AI + Construction + Industrial Systems

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SUMMARY

Technical founder with 20 years of experience building and deploying hardware and software products across GCC and EU markets. I designed and shipped Consai, a three-tier ruggedized construction monitoring platform that includes an airport-class unit delivering 50MP medium-format imagery at 1-minute intervals for 3+ years of continuous operation, and a high-security on-premise variant for the Qatar Ministry of Interior. I'm also building CVBee, a global SaaS platform for CV writing and a two-sided marketplace for CV experts. I work across the stack (embedded systems, edge AI integration, backend services, product design, team leadership) and I ship. Looking for Head of Product, CTO, Solutions Architect, or Founding Engineer roles in construction-tech, edge AI, or industrial AI.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript / Node.js, Bash, SQL

Embedded & Hardware: Single-board computers (ARM Linux), GPIO, I2C, UART, relay control, hall-effect sensors, 4G modem integration, UPS design, custom camera modules

AI & Computer Vision: Edge inference pipelines, YOLO-family models, NCNN, OpenCV, LLM-driven product workflows (OpenAI, ElevenLabs)

Backend & Data: Supabase, PostgreSQL, SQLite, Directus, MQTT, REST APIs, row-level security, atomic SQL transactions

Cloud & Infrastructure: Google Cloud Storage, reverse SSH tunneling, headless OTA updates, CI/CD, Linux sysadmin

Product & Design Tools: Onshape (mechanical CAD), Inkscape, Figma, BambuStudio (3D print prep)

Methodologies: Full product lifecycle, rapid prototyping, cross-functional team leadership, B2B enterprise delivery, ISO 9001 quality management

CORE COMPETENCIES

Product & Engineering Leadership: End-to-end product ownership across hardware, software, and deployment; technical roadmap; small-team leadership without micromanagement

Industrial & Edge Systems: Design of ruggedized hardware for harsh environments; long-duration unattended deployments; GCC construction-site operating constraints

Founder Skills: Three ventures founded; full go-to-market lifecycle; B2B enterprise and government-sector delivery across GCC and EU

Languages: Arabic (native), English (full professional), French (full professional), Italian (elementary), Polish (elementary)

SELECTED PRODUCTS I BUILT

Consai: Construction-Site Monitoring Platform

Founder & CEO | 2019 to Present | consai.io

A product line of three ruggedized time-lapse and monitoring units I architected end-to-end (hardware, software, cloud, and field deployment), designed for the realities of long-duration GCC construction sites.

- **Flagship (airport-class):** Medium-format 50MP imaging at 1-minute sustained intervals, running in military-grade casing with integrated wiper and washer system for desert visibility. Deployed on Hamad International Airport expansion for 3+ years of continuous capture at max bandwidth and SBC resource load. The technical achievement is delivering airport-class imagery and uptime from a hardened edge device.
- **Lite (high-security):** Built for the Qatar Ministry of Interior data center, a high-security environment where cloud dependency is not an option. On-premise local server handles all image data; a separate telemetry channel provides us remote health and update capability without compromising site security.
- **Z-Project (compact):** Compact unit designed as the “GoPro of time-lapse” for short-term projects that don’t justify a flagship install. Horizontal slab form factor for magic-arm mounting; runs on the same Consai dashboard as the flagship for operational consistency across a client’s portfolio.
- **Common stack:** Modular Python daemon architecture covering capture, watchdog, sync, enrich, and infer, with SQLite as local state bus; MQTT sync with REST fallback; headless OS with reverse SSH and OTA updates replacing legacy VNC/TeamViewer access; edge AI inference pipeline (computer vision led by co-founder, system integration mine).
- **Deployments:** FIFA World Cup 2022 stadiums, Doha Metro (90+ systems), Hamad International Airport, Qatar Ministry of Interior data center, Ras Laffan Industrial City. Construction projects start and end, so units are refurbished and redeployed. Hardware from 2019 is still in service today, running on original components.

CVBee: Global CV SaaS + Expert Marketplace

Founder | 2024 to Present | cvbee.me

- **Product:** Global SaaS for CV writing and optimization, paired with a two-sided marketplace where CV writing experts get paying work.
- **Stack:** Directus + Supabase stack with atomic credit transactions (resolved a race condition via SQL function), row-level security, and a full admin and operations panel I designed and shipped.
- **Engineering:** Migrated from a legacy WordPress/WooCommerce setup to the current architecture; built customer, orders, and order items models with matched data migration; implemented a database-driven feedback system.

PROFESSIONAL EXPERIENCE

Founder & CEO | *Consai*

Aug 2019 to Present

- Founded Consai to replace expensive imported time-lapse systems with a locally engineered platform built for GCC construction conditions.
- Designed and built the full hardware and software stack personally in the early years; now lead a small technical team, including a co-founder focused on computer vision.

- Grew from zero to a recurring-revenue product line of three distinct units (flagship, Lite, Z-Project), deployed across Qatar's flagship infrastructure projects. Product details in the Selected Products section above.

Founder & Managing Director | *TEC United (TEC U. Technology)* Apr 2019 to Present

- Founded TEC United as the commercial and operational vehicle for Consai and adjacent technology services across GCC and EU.
- Expanded operations from Qatar to Poland in 2024, establishing EU presence and opening new market channels.
- Delivered GPS-based sports performance tracking to Qatari football teams and AI-powered construction monitoring to infrastructure clients.

Managing Partner & Head of Innovation | *Esmart* May 2018 to Apr 2021

- Co-founded Esmart as a tech spin-out to shift from service provider to IP owner and manufacturer: bringing time-lapse hardware and software engineering fully in-house.
- Directed the full R&D lifecycle for remote monitoring systems; built a locally engineered alternative to imported platforms.
- Delivered pilot deployments for major Qatari construction clients, validating the in-house stack in production.

Senior Business Development Manager | *Eclick Multimedia Solutions* Aug 2014 to Aug 2018

- Conceptualized and launched Construction Media Solutions, the division that positioned Eclick as Qatar's dominant provider for time-lapse and construction documentation during the FIFA 2022 build-out.
- Secured and delivered Qatar Rail (Doha Metro) as sole provider: 90+ camera systems integrated with a cloud-based monitoring platform accessible 24/7.
- Established Eclick as exclusive media solutions provider for all FIFA World Cup 2022 stadium projects; regularly invited by clients to draft pre-tender technical scopes.

Marketing Manager, then Senior Sales Executive | *Eclick Multimedia Solutions* Mar 2010 to Aug 2014

- Defined marketing strategy for new service lines (drone videography, progress reporting, branded client portals) and B2B performance campaigns across traditional and digital channels.
- Built the sales motion that transitioned Eclick from generalist agency to construction specialist ahead of market demand.

Direct Sales Executive | *Ooredoo Qatar* Apr 2009 to Mar 2010

- Managed client experience and sales team training on new products and CRM tools; built a sales reporting system for retail outlets.

EDUCATION & CERTIFICATIONS

Bachelor's Degree, Digital Communication and Media/Multimedia | ISIM Sfax, Tunisia (2001 to 2005)

Advanced Project Management | Eneritech Safety Training Center, Qatar

ISO 9001:2008 Quality Manager | Equalitas Certifications Limited, Qatar