VAHID NICKMANESH

Founder & CEO, OpsBond · AI Systems Builder · Trader & Business Operator · Music Arranger

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EXECUTIVE PROFILE

Founder and hands-on **AI systems builder** who combines engineering, **international trade** and more than a decade of business operations with nearly two decades of professional **music and audio** work. As Founder & CEO of OpsBond, he personally architects and builds governed, multilingual operational-AI systems, in text and voice, that turn customer conversations into accountable business actions. A UAE resident, he owns and runs a **Dubai-based trading company**, has completed **multiple food-product container shipments**, and is the author of a **DOI-published technical note** on rhythmic notation.

CORE COMPETENCIES

AI & Systems	Trade & Operations	Research & Creative
Operational & agentic AI	Import/export & container trade	Technical writing & publication
Conversational & voice AI	Supplier & partner development	Rhythm & timing systems
Governed state & data design	Company setup & licensing	Music arrangement & guitar
AI evaluation & regression testing	Hospitality & retail operations	Band leadership & live performance
Workflow automation & APIs	Pricing, purchasing & inventory	Audio & DAW/MIDI workflows

SELECTED ACHIEVEMENTS

- Designed and built OpsBond's **working multilingual Clinic product**: text and voice messages, draft-first confirmation, structured reception feed, revision history, medical-safety routing and human handoff, demonstrated in English and Arabic recordings.
- Delivered **governed operational foundations**: canonical state and decisions held in PostgreSQL outside the model, plus a task foundation with idempotency and full history, accepted in September 2026.
- Built a **realtime multilingual voice prototype** with a five-language runtime, human-tested in Persian, Urdu and English, with interruption handling and a provider-neutral telephony layer.
- OpsBond architecture **reviewed by three external computer-engineering academics** (June to August 2026).
- Completed **multiple food-product container shipments** as owner-operator, from sourcing and logistics through sale.
- Author of the **Gulf–Bandari 4/4 Notation System** (Zenodo technical note, 2026); **30+ music credits**; band leader for a concert with **two sold-out showtimes** (2024).

PROFESSIONAL EXPERIENCE

Founder & CEO

Present

OpsBond, operational AI for service businesses · Dubai, UAE

- Founded an operational-AI company for service businesses, starting with UAE clinics; personally leads product, architecture, implementation, integrations, testing and execution.
- Defined the **"soft understanding, hard authority"** architecture: models interpret language, while state, permissions, approvals and evidence live in a governed core outside the model.
- Built reliability controls into the core: tenant isolation, idempotency and replay safety, transactional outbox, append-only history and supersession of corrected data.
- Built the realtime voice track with **Pipecat** and **Gemini Live** native audio, local **Silero VAD** and **SmartTurn** turn detection, language locking, and **Deepgram Nova-3** for post-call transcription and audit.
- Runs evidence-gated delivery: regression, property-based and metamorphic test suites, calibration/holdout evaluation design, non-regression capability matrices and rollback-safe releases.
- Operates the production stack: Ubuntu Linux, Docker Compose, **n8n** main/worker, **PostgreSQL**, PgBouncer, **Redis**, backup and recovery checks.

Owner & Managing Director

Present

HARVEST GOLD VEGETABLES & FRUIT TRADING FZCO · IFZA, Dubai, UAE

- Sole owner and managing director of a Dubai free-zone company licensed for vegetables & fruit trading and e-commerce.
- Leads UAE commercial setup, licensing and renewals, supplier and partner coordination, market development and trade operations.

- Develops cross-border produce trade into the UAE: sourcing, logistics-cost modelling, Al Aweer market intelligence, broker and buyer communication, and risk-aware shipment economics.

Business Owner & Operator

12+ years

Furnished short-stay rentals, retail and food service

- Runs three furnished short-stay rental properties with direct responsibility for pricing, guest operations, occupancy, suppliers and service quality.
- Additional hands-on experience in retail and university food service: purchasing, inventory and customer service. These real workflows shaped OpsBond's product design.

TECHNICAL TOOLKIT

AI & language	LLM integration across multiple providers, structured extraction, multilingual conversation design (Persian, English, Arabic), local models (Ollama)
Voice	Pipecat, Gemini Live native audio, Silero VAD, SmartTurn, Deepgram Nova-3, local speech recognition, text-to-speech
Data & backend	PostgreSQL (tenant model, row-level security, append-only history), PgBouncer, Redis, n8n, Python, REST APIs, Telegram Bot API
Infrastructure	Ubuntu Linux, Docker Compose, KVM/libvirt, secure remote administration, backup and recovery, GPU workstation
Quality	Regression, property-based and metamorphic testing; holdout evaluation; non-regression matrices; canary releases and rollback
Developer tools	Git, VS Code, PowerShell, SSH/SCP/SFTP, Docker CLI, Cloudflare routing

RESEARCH & PUBLICATIONS

Nickmanesh, V. (2026). ***Gulf–Bandari 4/4 Notation System*** (Version 1.0) [Technical note]. Zenodo.
https://doi.org/10.5281/zenodo.20586726

- A pedagogical framework that maps Gulf–Bandari rhythms, traditionally felt in 6/8 or 12/8, onto a 4/4 sixteenth-note grid, with conducting perspectives, guitar-to-drum mapping, arrangement guidance and DAW/MIDI workflows (Cubase, Studio One). Audio and DAW groove references are treated as the timing authority.
- Supporting Zenodo record 20694572; public research identity ORCID 0009-0005-0252-5307; indexed in OpenAIRE. Evidence portfolio: vahidnickmanesh.com/evidence

MUSIC & AUDIO CAREER

Music Arranger, Guitarist, Band Leader & Author of the Gulf–Bandari 4/4 Notation System

~18 years

- More than **30 compiled arrangement and guitar credits** across many artists; selected arranger credits: "Ayahtenom" (Yasin Shahriari) and "Bi Gharar" (Ali Abdollahi). Public performance archive since 2008.
- Band leader for a Yasin Shahriari concert with **two sold-out showtimes** (May 2024).
- Specialist in Gulf and Bandari rhythmic traditions.
- Applies audio practice to voice-AI design: timing, turn-taking, interruption handling and natural speech quality.

EDUCATION, QUALIFICATIONS & LANGUAGES

- **Bachelor's degree, Electronics Technology Engineering** · Islamic Azad University · 2015–16
- **Bachelor-level degree, Information & Communications Technology (ICT) Engineering** · Shiraz University · 2010–11
- **Associate degree, Electronics** · Islamic Azad University · 2007–08
- Technical qualifications: **PLC (Grade 2)**, **Industrial Instrumentation (Grade 1)**.
- Languages: **Persian** (native) · **English** (intermediate, working proficiency)