VÍCTOR MANUEL HERNÁNDEZ LÓPEZ

FOUNDING APPLIED AI SYSTEMS ARCHITECT

Jacksonville, Florida · linkedin.com/in/victor-m-hernandez-l · mindwarehouse.ai

Architect of governed agentic systems, intelligence platforms, and human-AI decision infrastructure. Combines hands-on systems design with decades of leadership across technology, entrepreneurship, humanitarian operations, teaching, and civic organization. Builds evidence-first systems that expose uncertainty, preserve human authority, and turn severe resource constraints into practical operating advantages.

SELECTED IMPACT

- Built an interconnected applied-AI ecosystem on an open-source stack, a standard i7-7700 / 32 GB workstation, and approximately $140 per month in model subscriptions.
- Architected VeraVadis around an audited 6.19 GB development database with 365 tables (counted Sep 22, 2026), 148,320 collected news records of which 38,965 are fully analyzed, and 203,959 entities (counted Sep 23, 2026).
- Designed Nexus as a governed mission-control layer connecting agent work, persistent context, memory, verification, service health, alerts, and explicit human approval.
- Directed volunteer operations for dozens of community initiatives, including events serving up to 1,500 children plus separate programming for parents.

PROFESSIONAL EXPERIENCE

MindWareHouse — Founder & Applied AI Systems Architect Jul 2024–Present

Jacksonville, Florida · Remote

- Founded an applied AI systems practice focused on governed agentic systems, intelligence platforms, and decision infrastructure.
- Architected a connected portfolio spanning Nexus, VeraVadis, PCM, Axon Memory, Agora, DeepEx, MW-Probe, VoceStudio, and mission-specific products.
- Established evidence-first patterns for source ecology, confidence calibration, contradiction handling, chain of custody, audit trails, human approval, and honest unavailable states.
- Designed local-first and depth-aware routing that assigns work to the least expensive capable resource while reserving human attention for judgment.
- Directed multiple AI collaborators as specialized resources while retaining architecture, validation, prioritization, and final authority.

Help Venezuela Foundation — Co-Founder & Director of Operations Oct 2012–Present

Florida · Remote

- Co-founded and directed a mission-driven organization supporting Venezuelan communities through humanitarian coordination, advocacy, research, and public information.
- Led operational planning, volunteer coordination, stakeholder communication, and initiatives under limited-resource and high-uncertainty conditions.
- Connected humanitarian requirements with evidence gathering, public communication, and practical delivery; translated field leadership into an emerging humanitarian-intelligence platform.

SELECTED SYSTEMS

VeraVadis — Evidence-centered investigative intelligence. Multilingual source analysis, entity graphs, claims, calibration, provenance, contradiction handling, and publication safety.

Nexus — Governed AI mission control. Gated missions, agent supervision, system health, memory, verification, alerts, and human approval.

PCM & Axon Memory — Persistent context and cognitive memory. Context protocol and hierarchical memory with controlled forgetting and semantic deduplication.

Agora — Calibrated multi-agent deliberation. Preserves dissent and connects confidence to observed outcomes through Brier scoring.

DeepEx & MW-Probe — Software assurance. Deterministic code auditing paired with browser-level verification and signed runtime evidence.

TECHNICAL EVIDENCE

- The VeraVadis corpus also includes 37,371 YouTube videos indexed (12,899 with transcripts), 3.34 million ICIJ relationships, 1.70 million video-topic links, and 211,297 UCDP events (as of Sep 2026).
- A 4,217-line visual-direction engine (as of Sep 2026) manages 6,491 assets or plans, 307 learning episodes, and 163 editorial preferences while preserving an auditable approval history.
- DeepEx evaluates software through 16 weighted deterministic metrics; recursive improvement is defined as audit, fix, and re-audit under a non-regression gate, not autonomous self-rewriting.
- Axon’s Rust/PyO3 core compiles and exposes tested primitives for similarity, deduplication, decay, and graph traversal; performance benchmarking remains an explicit next step.

EARLIER LEADERSHIP

- Built and directed technology businesses in Venezuela, including computer assembly and wholesale operations, and established a U.S. commercial office.
- Taught at university level and worked with operations research at Universidad Central de Venezuela.
- Organized civic networks, large peaceful demonstrations, and neighborhood logistics under politically adverse conditions.
- Served as a Catholic lay missionary, pastoral leader, Extraordinary Minister of Holy Communion, and facilitator of Centering Prayer.
- Led multidisciplinary volunteer teams for complex community events; coordinated donations, food, entertainment, infrastructure, and family programming while protecting donor anonymity.

CORE CAPABILITIES

Applied AI Architecture · Agentic Systems · Multi-Agent Orchestration · Human-in-the-Loop Governance · System & Solution Architecture · Knowledge Graphs · Evidence Provenance · OSINT · Intelligence Analysis · Python · FastAPI · React / TypeScript · SQLite / PostgreSQL · Playwright · Rust / PyO3 · Operations Research · Strategic Planning · Crisis & Humanitarian Leadership

EDUCATION

Universidad Central de Venezuela (UCV) — Advanced coursework in Mining Engineering and Operations Research; 9 of 10 semesters completed.

ADDITIONAL

Authorized to work in the United States · Spanish (native) · English (professional)