EDWARD TADROS

AI Enablement & Transformation Consultant

Hands-On Agentic Systems · Generative AI Integration · Enterprise Automation

Founder & Principal, Proticom (est. 2000)

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SUMMARY

AI enablement and transformation consultant with 25+ years making enterprises measurably faster through optimization and automation — generative AI and large language models (LLMs) are the newest, most capable tools for that same mission. Hands-on builder: production systems on Claude, GPT, Gemini, and Grok APIs; agentic systems and persistent agents under human-approval models; local and private model deployment; training small models for targeted tasks. Engaged by enterprise and regulated clients including the Wikimedia Foundation, Fannie Mae, and clinical-trial SaaS delivered to FDA and ISO 13485 standards — built on two decades inside healthcare systems (City of Hope, Cedars-Sinai, Hoag Hospital, UC Irvine Health) and financial services (LPL Financial, Western Asset Management). A quality-engineering foundation means every rollout ships with human-in-the-loop controls, auditability, and adoption built in — measurable outcomes in weeks, not quarters, including an AI-agent pipeline adopted by four Wikimedia teams and an approximately 80% reduction in manual document handling at Shenouda & Associates, LLP.

CORE CAPABILITIES

- **AI Enablement & Adoption** — workflow redesign, human-in-the-loop operating models, AI playbooks and Center of Excellence (CoE) design, change management, training teams to work alongside AI
- **Agentic Systems & Persistent Agents** — multi-agent orchestration, autonomous automation under human-approval models, persistent agent memory, tool-using agents (MCP and similar), model routing with per-task reasoning-effort control
- **AI Application Development** — production generative AI / large language model (LLM) builds on Claude, GPT, Gemini, and Grok APIs; retrieval-augmented generation (RAG) architecture; prompt engineering at scale; model evaluation
- **Local, Private & Small Models** — on-premises and local LLM deployment (including NVIDIA Nemotron), privacy-first architectures, training small models for targeted tasks
- **AI Quality, Governance & Trust** — AI governance, evaluation frameworks, human-approval workflows, auditability, prompt-injection hardening, delivery in regulated environments — FDA / ISO 13485 clinical-trial SaaS; HIPAA-covered provider environments (City of Hope, Cedars-Sinai, Hoag, UC Irvine Health)
- **Enterprise Transformation Delivery** — digital transformation, Center of Excellence design, global change adoption, executive alignment, onshore/offshore delivery

EXPERIENCE

Proticom — Founder & Principal · Huntington Beach, CA · 2000–Present

- Designs and ships production agentic systems across Claude, GPT, Gemini, Grok (xAI / SpaceX), Qwen, DeepSeek, and MiniMax: multi-agent orchestration, persistent agent memory and knowledge-graph infrastructure (published as an open-source npm package), retrieval-augmented generation (RAG), multi-model consensus APIs, and model routing that sets reasoning effort by task complexity.
- Deploys local and private LLMs — including NVIDIA Nemotron — for privacy-sensitive workloads; trains small models for targeted tasks; hardens AI applications against prompt injection.

Shenouda & Associates, LLP — Local Document Agent · Huntington Beach, CA · 2025–Present

- Building a local agent that handles client tax and accounting documents on the firm's machines. Files stay local. No cloud upload of client records.
- Document extraction and categorization against a privacy-first local model stack; the work cut manual document handling by approximately 80%.

Wikimedia Foundation — Senior QA Engineering & AI Enablement · Remote · Part-time · January 2019–November 2025

- Designed and shipped an AI-augmented requirements and testing pipeline that extracts ticket context, analyzes code patches, and generates complete requirements, BDD/Gherkin scenarios, and manual test steps — adopted by four internal teams, cutting weekly QA documentation effort by approximately 90%.
- Established the team's authoring standard (BDD/Gherkin, user-observable behavior only) and shift-left quality practices; validated production event instrumentation end to end; authored and executed the test plan for an A/B experiment across eight language Wikipedias.

Precision Digital Health — AI & Quality Enablement, Clinical-Trial SaaS · Remote · Part-time · May 2026–August 2026

- Led software quality assurance (SQA) and compliance enablement for a clinical-trial management platform built to medical-device standards (ISO 13485, IEC 62304, ISO 14971; FDA audit context); reconstructed a formal requirements baseline and traceability for a system delivered without supporting documentation.
- Built and demonstrated an AI-driven automated regression tool operating inside a regulated medical-device software development lifecycle; established the JIRA evidence structure adopted as the company's ongoing quality standard.

Fannie Mae — AI Enablement & Testing Center of Excellence (via TEKsystems) · Reston, VA · January–April 2024

- Led AI enablement for enterprise testing: built a complete Testing Center of Excellence playbook suite using structured generative-AI prompting and automation frameworks.
- Expanded test-process coverage from the client's planned 20% of targeted application areas to 100%, establishing repeatable processes for how to test each area, and transferred the AI-augmented authoring patterns the in-house team continued using after the engagement.

ADDITIONAL ENTERPRISE TRANSFORMATION EXPERIENCE

Two decades of enterprise transformation delivery — Centers of Excellence, global adoption, governance, and measurable operating improvement; the same practice, pre-generative-AI toolchain:

- **City of Hope** (2008–2014, 2017–2018): grew the QA organization from 6 to 28; CoE frameworks and automation cut testing time up to 60% and production issues by 95%.
- **Avery Dennison** (2014–2018): enterprise QA strategy, tool adoption, and CoE standards across global divisions.
- **UC Irvine Health** (2015–2016): platform modernization and licensing utilities saving 40 hours per test cycle and $44,000 annually; CoE strategy for the Epic transition.
- **Hoag Hospital** (2011–2013, 2016–2017): automation and performance frameworks cutting release testing 40+ hours per cycle.
- **Cedars-Sinai Medical Center** (2009–2010): tool-independent automation framework; page-load verification from 13 minutes to under 30 seconds; test development time down 80%.
- **Sony Pictures** (2006–2011): global QA transition, governance, and tooling standards across 200+ entities.

Early career (1998–2008): QA automation leadership at Intel, LPL Financial, Argent Mortgage, Western Asset Management, and Longs Drugs — framework development, test-tool evaluation, and process optimization.

TOOLS & TECHNOLOGIES

- **AI & LLM:** Claude (Anthropic), GPT (OpenAI), Gemini (Google), Grok (xAI / SpaceX), Qwen, DeepSeek, and MiniMax APIs; NVIDIA Nemotron (local); AWS Bedrock, Azure OpenAI, Google Vertex AI; retrieval-augmented generation (RAG); Model Context Protocol (MCP); model routing and per-task reasoning-effort selection; prompt-injection hardening; prompt engineering; model evaluation; local LLM deployment; small-model training (applied machine learning)
- **Languages & Data:** Python (AI orchestration), TypeScript, JavaScript, .NET, shell scripting, SQLite
- **Delivery & Compliance:** JIRA, Confluence, BDD/Gherkin, browser automation; FDA, ISO 13485, IEC 62304, ISO 14971; HIPAA-covered provider environments

EDUCATION & PROFESSIONAL DEVELOPMENT

- **Bachelor of Science (B.S.), Mechanical Engineering** (Control Systems / Robotics emphasis) — UC Irvine, 1996
- **Artificial Intelligence: Business Strategies and Applications** — UC Berkeley Haas / Emeritus, 2024
- **Tackling the Challenges of Big Data** — MIT Professional Education, 2015
- **Computer & Information Sciences coursework** — UCI Division of Continuing Education, 2011–2016