

DERICK HOWARD

SYSTEMS BUILDER — AI AUTOMATION · FULL-STACK · INFRASTRUCTURE · BUSINESS OPERATIONS

Temecula, California · Remote (US) · hire@dhowmail.com · (727) 502-6315 · Portfolio · LinkedIn · GitHub

PROFILE

Self-directed systems builder with five years of hands-on programming practice and recent experience turning real operational problems into working software. Built and operated systems across construction intelligence, hospitality, local-business operations, and private AI infrastructure. Comfortable moving from ambiguous requirements through interfaces, integrations, deployment, monitoring, and operator handoff. Looking to bring proven building ability into an experienced engineering or product team.

SELECTED SYSTEMS

Instruxit — Construction Drawing Intelligence | Collaborative · Private

- Co-built a Python and TypeScript workflow that turns large construction plan sets into source-linked, reviewable bid packages with page classification, scope extraction, confidence, rejected candidates, and preserved human review.
- In one observed bid cycle, the collaborative workflow reduced roughly 40 hours of work to about 5 hours; the result was human-reviewed and is not presented as a universal guarantee.

Horizon Haven / AltonBnB — Hospitality Operating Layer | Family Operating Work

- Helped rebuild a long-vacant family property, then built and supported the digital operating layer around its direct-booking website, OwnerRez, Airbnb, Vrbo, pricing, turnovers, reviews, and guest workflows.
- Built event monitoring, deduplication, dashboards, and private operator alerts while preserving OwnerRez as the booking/calendar source of truth and keeping guest communication human-approved.

BetterBis — Local-Business Operating System | Private Operating Lab

- Combined websites, business communications, CRM, media, intake, and launch workflows into reusable components for contractors and local businesses instead of isolated one-off projects.
- Built full-stack and mobile-facing communications components, deployment infrastructure, owner previews, and human approval boundaries as one BetterBis system.

AI Agent Control Plane — Governed Multi-User Automation | Operating

- Built a model-agnostic control plane with persistent user profiles, memory, tools, permissions, approvals, and audit state above replaceable cloud and local model workers.
- Operate private Linux/NixOS infrastructure with isolated services, encrypted backups, private networking, monitoring, health checks, and rollback procedures across family-facing systems.

Restaurant PosiTouch Alerts | Paid Field Deployment

- Built a passive workflow around legacy PosiTouch/KDS screens that detects sustained bottleneck states, suppresses repeat alerts, preserves location context, and delivers operator-ready visual alerts.
- Deployed across two Windows stations and documented recovery and operating boundaries without changing the restaurant's system of record.

EXPERIENCE & EDUCATION

Independent Systems Builder — 2024–Present · Project-based software, infrastructure, hospitality, and small-business systems work.

Additional hands-on work: construction and renovation, restaurant service, live audio/DJ operations, and math tutoring.

Mt. San Jacinto College — CIS Computer Science AS UC/CSU ADT, in progress; planned transfer Fall 2026

California State University, Chico — Mechanical Engineering and CAD coursework

TECHNICAL RANGE

Languages: Python, TypeScript, JavaScript, Dart, SQL, Shell, Nix, HTML/CSS

Product & data: React, Next.js, Vite, FastAPI, Flask, Express, Flutter, PostgreSQL, SQLite, Redis, Playwright

Infrastructure: Linux, NixOS, Windows, macOS, Docker, Cloudflare, Railway, Vercel, Tailscale, GitHub Actions

AI & integrations: MCP, model APIs, agent orchestration, human-in-the-loop workflows, Twilio, OwnerRez, Telegram