

Dean Diego

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Systems Integration Engineer | AI Integration | Cloud + LLM Automation

SUMMARY

Systems Integration Engineer with 4+ years building and deploying AI tools, cloud integrations, and automated workflows in production. Day-to-day stack covers Python, TypeScript, JSON/XML/CSV transformations, REST + webhook APIs, and LLMs from OpenAI, Anthropic, and Google. Deploys AI platforms (webchat, structured-output analysis, embedded retrieval) into enterprise environments and connects them safely to CRMs, billing, and data systems. FAA Part 107 certified, US citizen.

PROFESSIONAL EXPERIENCE

Window Depot USA — Columbiana, OH

2022 – Present

Four years inside an 86-dealer corporate network. Promoted from Digital Content Creator into Systems Integration Engineer in 2025 after systematically replacing manual workflows with shipped, monitored systems.

Systems Integration Engineer | 2025 – Present

Configure, integrate, and deploy AI tools + automation across the dealer network. Own CRM pipelines, AI-platform rollouts, and SMS compliance posture for the whole company.

- **AI platform deployment:** rolled out Emerson Ai (Vendasta) webchat across the dealer network — configuration, training-data ingestion, dealer-by-dealer go-live, ongoing support. Authored the Emerson Ai → MarketSharp appointment write-back integration design (Vendasta Workflows webhook → Zapier Catch Hook → MarketSharp Submit Lead).
- **CRM integration pipelines:** Gravity Forms → Zapier → ZIP-lookup → Builder Prime / MarketSharp / Vendasta across 86+ dealer locations. JSON transformation, idempotency, error routing, monitoring.
- **Internal AI tool build:** designed and shipped an internal sales-coaching tool using **GPT-5 structured output with strict JSON schema**, pgvector embedded retrieval, multi-role RLS, audio recording upload, and signed-URL direct-to-storage uploads. Shipped 11 production PRs through an AI review gate in a single day.
- **API + webhook engineering:** custom webhook receivers, REST API integrations (Builder Prime, MarketSharp, Vendasta, Twilio, Stripe), n8n self-hosted workflow orchestration on Hostinger VPS.
- **SMS / A2P compliance:** registration, remediation, brand/campaign management across dealer accounts under TCPA + carrier-vetting rules.

Digital Content Creator | 2022 – 2025

- **Brand content + dealer-site operations at scale:** install/removal training videos, sales training recordings, FAA Part 107 aerial footage, and content updates across 86+ WordPress/Divi/Enfold dealer sites in Adobe Creative Suite.
- **Built the first marketing ROI + lead attribution dashboards** at WDUSA — tracked where corporate spend converted into pipeline, improved decision-making speed ~40%, and made the analytical case for the 2025 engineering promotion.
- **Originated dealer-site templating patterns** — repeatable content propagation, brand voice consistency across 86 sites, asset pipelines — later codified into the production Enfold cloner I built as SIE.

XPRT Solutions LLC — Founder & Solo Engineer (*side venture*)

2022 – Present | Austintown, OH | goxprt.com

Built and operates XPRT Cloud, a live AI-powered documentation SaaS — a side project that doubles as an integration playground.

- **End-to-end AI integration:** FastAPI backend orchestrating Google Gemini 2.5 Flash (vision), Modal H100 GPUs (Gaussian Splatting), Cloudflare R2 storage, and PostgreSQL + pgvector for retrieval.
- **Payments + auth integrations:** Stripe live mode across 5 pricing tiers + 4 add-ons, Clerk for authentication — all wired through webhook handlers with idempotency and structured logging.
- **Infrastructure:** self-hosted Hostinger VPS running Coolify, n8n, Postgres, MinIO, Uptime Kuma, Cloudflare Tunnel for hybrid cloud↔home-GPU integration.
- **AI-as-co-developer:** intentional prompt structuring + iteration loops across Claude (code review), Gemini (vision), GPT-5 (structured output), and Grok (multi-agent reasoning) — model selection by task profile.

Independent Market Analyst

2018 – Present

- **Built an algorithmic trading bridge live in production:** TradingView Pine Script signals → FastAPI webhook → FreqTrade execution → Coinbase. Custom integration with IP allow-listing, shared-secret auth, monitoring.
- Manages private portfolio across equities, commodities, and digital assets using technical + fundamental analysis. Tracks macro indicators (CPI, PMIs, yield curves, commodity flows) to evaluate market risk.

TECHNICAL STACK

Languages: Python, TypeScript / JavaScript, SQL, Bash (Ruby comfortable)

Data formats: JSON, XML, CSV — transformations, schema validation (Zod, Pydantic), parsing pipelines

AI / LLM platforms: OpenAI (GPT-5 structured output, embeddings), Anthropic Claude, Google Gemini, Ollama (local), Grok

Cloud infrastructure: Docker, Vercel, Cloudflare (DNS + R2 + Tunnel + Workers), Hostinger VPS + Coolify, AWS-compatible storage, Supabase

Integrations + automation: Zapier, n8n (self-hosted), Gravity Forms, Stripe, Clerk, Builder Prime, MarketSharp, Vendasta, Twilio/A2P, ElevenLabs, FreqTrade

Databases: PostgreSQL + pgvector, Alembic migrations, SQL design

APIs: REST, webhooks, signed URLs, idempotency patterns, retry / dead-letter design

EDUCATION & CERTIFICATIONS

- **B.S. General Education** — Youngstown State University (in progress, expected 2027). Coursework: Sales, Marketing, Technology, Financial Management, Analytical Decision-Making.
- **FAA Part 107 Remote Pilot Certificate** — active. Python Crash Course (Coursera). Adobe Design Fundamentals (Coursera).

US Citizen | Remote-first, open to HART hybrid for the right role