

CURTIS A. FOSTER

AI Product Manager · Technical Product Manager · Applied AI Builder
Atlanta, GA | cfooster@nestedtechnologies.com | curtisfooster-ai.com | linkedin.com/in/curtis-foster-ai

SUMMARY

Product and delivery leader with 20+ years shipping complex technical programs at Verizon, HP, and InterContinental Hotels — who now designs and ships production AI systems end to end. Founder and lead builder of two live, multi-model AI platforms, with a deep, hands-on focus on **agentic AI: recursive, self-correcting multi-agent systems that iteratively critique and refine their own outputs to reach a level of reliability and quality single-pass models can't**. Also founder of a hybrid-electric drone venture with 5 granted U.S. patents. A rare blend of executive-level program leadership, startup-founder experience, and genuine hands-on AI engineering.

CORE SKILLS

AI / ML: Agentic AI & multi-agent orchestration (recursive generate→critique→revise loops, autonomous verification, tool use, planning) · Multi-model LLM orchestration (OpenAI GPT-4o / GPT-5-class, Anthropic Claude, Google Gemini) · Retrieval-augmented generation & vector search (Pinecone) · Long-term memory architecture · Prompt & system-prompt engineering · AI evaluation, red-teaming & guardrails · Generative image/video pipelines (Imagen, Veo, DALL-E) · Speech (ElevenLabs, Deepgram) · AI cost/telemetry engineering

Product / Delivery: AI product strategy · Technical program management · Roadmapping · Discovery & requirements · Stakeholder & global vendor management · KPI definition · SDLC

Engineering: Python · TypeScript / Node.js · React Native / Expo · PostgreSQL / Prisma · Redis · REST APIs · Docker · GitHub Actions CI/CD

Cloud: AWS (EC2, RDS, S3, SES, ElastiCache)

FEATURED AI PLATFORMS (FOUNDER & LEAD ENGINEER)

Ziggyloo — AI tutoring platform for neurodiverse children

Live at ziggyloo.com · 2024–Present

- Architected a production multi-model AI system orchestrating OpenAI, Anthropic Claude, and Google Gemini across conversational tutoring, story generation, and image/video generation.
- **Built a recursive, self-correcting agent pipeline that makes correctness provable** — an independent reviewer agent grades every generated item against six checks, routes failures back to a revision agent, and re-reviews in a bounded recursion (max attempts + time budget) until the output is certified. Fail-closed by design, so a defective item is never shown to a child.
- Designed a 5-layer long-term AI memory architecture (structured signals, Pinecone semantic vector memory, AI-distilled learner profiles, a proactive-insight engine, and parent-shared context) for deep, per-child personalization.
- Built an AI safety & evaluation stack — a multi-category child-welfare safety classifier and a 2,000-scenario red-team simulation harness with autonomous multi-hour eval runs, cost caps, and quality grading.
- Shipped the full stack solo — React Native app, Python + Node/TypeScript backend, Stripe billing, and AWS deployment with CI/CD.

Zentoko — multi-brand AI content, marketing & media platform

Live at zentoko.com · 2024–Present

- **Architected the platform's core as a recursive, self-correcting multi-agent system** — specialized agents (strategy, generation, brand-safety, vision-critique, optimization) that plan, route, and adversarially critique one another's work in a generate→review→revise loop that recurses until output clears an explicit quality bar, driving materially more reliable, on-brand results than single-pass generation.
- Built a single-backend, multi-tenant platform (125-model PostgreSQL/Prisma schema) that generates on-brand imagery, automated video “reels,” and marketing content for multiple live consumer brands from one system.
- Built an AI marketing-strategy engine — 10 modules including a hook-formula library, audience/JTBD framing, content-pillar mapping, competitor whitespace analysis, and flop-diagnosis feedback loops — that turns a brand brief into a ready-to-run strategy.
- Engineered a market-intelligence layer that scans a brand's site and competitors to surface content gaps and trends, plus a marketing-plan generator (intake wizard → automated web scan → polished PDF).
- Automated end-to-end scheduled publishing (Redis / BullMQ queue) and a generative-video pipeline (Imagen/Veo keyframes → FFmpeg assembly) with S3 signed-URL delivery, automatic retry/backoff, and per-call AI cost telemetry.

PROFESSIONAL EXPERIENCE

Sonin Hybrid, LLC — Founder

Live at soninhybrid.com · 2016–Present

- Founded a hybrid-electric aerial-vehicle (drone) venture and led it from concept through a granted 5-patent portfolio covering powertrain architecture, torque and engine/pitch control, landing systems, and product design.
- Named inventor on all five U.S. patents; directed the R&D and product vision behind the Recruit hybrid drone.

Tranzact Insurance Services

2014–2026

Director of Strategic Implementation

Jan 2025–Feb 2026

- Led 14 strategic initiatives from discovery to core operations, moving 8 from incubation to production within 4 months.
- Lifted member satisfaction (CSAT/NPS) by 17 points and raised first-contact resolution to 92% (up from 78%).
- Cut average member resolution/handle time by 22% and reduced member churn by 7%, delivering \$43M in annual operational savings through process optimization.
- Reduced new-hire ramp time by 20% via redesigned training and enablement materials.

Senior IT Project Manager

Jun 2014–Dec 2024

- Lead IT PM for the back-end technologies behind Verizon Vehicle (launched at the Detroit Auto Show, Jan 2015), directing 300+ IT personnel across 30 partnering/contracting companies to a fixed public launch date.
- Delivered 1,800+ releases at 98.4% on-time across a \$175M program budget, reducing schedule slippage by 11%.

Hewlett Packard — Project Manager / Business Analyst

2013–2014

- Championed a six-month program with a \$4.2B annual revenue impact; delivered IT governance, business-continuity, and security frameworks for a senior-level external client.

Verizon Wireless (Headquarters) — Project Manager / Business Analyst

2011–2013

- Took a stalled flagship release (6 years in requirements) to launch in ~5 months; authored 40+ requirements eliminating duplicate data entry and driving workflow efficiency.
- Led design of an enterprise BI system projected to raise worker efficiency 40–60%; built a working prototype to win leadership buy-in.

Earlier Experience

Software Developer, BigCrumbs · Project Manager / Software Engineer, InterContinental Hotels Group — built a hotel-to-hotel referral system generating ~\$20M/yr across 206 hotels (still in use), leading teams of up to 18 · Software Developer, World Financial Group.

PATENTS — NAMED INVENTOR ON ALL FIVE (ASSIGNED TO SONIN HYBRID, LLC)

- [US 12,441,491 B2](#) — Powertrain for aerial vehicle (foundational hybrid mechanical/electrical power-distribution architecture)
- [US 12,654,886 B2](#) — Systems and methods for controlling torque for aerial vehicle
- [US 12,715,628 B2](#) — Controlling engine speed and/or propeller pitch for aerial vehicles
- [US 11,820,493 B2](#) — Landing support assembly for aerial vehicles (retractable, expanding landing system)
- [US D1,045,668 S](#) — Drone (ornamental design patent)

EDUCATION

Morehouse College, Atlanta, GA — Business Administration