

Allan M. Henslee, PhD

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PhD bioengineer with 18 years in medtech. Founding employee and R&D head at iotaMotion: led a first-of-its-kind robotic cochlear-implant insertion system from concept through FDA De Novo authorization and its first-in-human trial. PI on four SBIR awards totaling over $3.6M; NIH grant reviewer; co-inventor on 5 US patents; 21 peer-reviewed publications. Since mid-2025, shipping production AI systems with Claude Code and Codex: a 110-table data platform, a production MCP server, and AI analyst agents that turn business data into weekly decisions.

Tools: Claude / Claude Code · Codex · MCP · Postgres (Neon, Supabase) · TypeScript / Next.js · Vercel · Shopify, Stripe, GA4 APIs

PROFESSIONAL EXPERIENCE

iotaMotion, Austin, TX
Director of Research & Development (2019–2024)
Director of Product Development (2016–2018)
• Founding employee; led PD/R&D from company start through FDA De Novo authorization of a first-of-its-kind Class II robotic cochlear-implant insertion system, its first-in-human clinical trial, and initial commercialization
• Principal Investigator on 4 SBIR grants (NSF and NIH/NIDCD) totaling over $3.6M in non-dilutive funding
• Led product design and testing, *in vivo* validation, clinical study design and data analysis, IP generation, manufacturing, and regulatory strategy under FDA design controls
• Co-inventor on 5 US patents (9 granted worldwide); co-authored 7 peer-reviewed papers and 3 white papers

Party On Delivery, Austin, TX
Owner / Operator & AI and Data Platform Lead (2023–present)
Austin delivery and event-concierge company
• Designed and built the company's operations data platform, with Claude Code as the primary engineering tool: a ~110-table Postgres database unifying Shopify, Stripe, Google Analytics, Search Console, and web-traffic data (2,300+ commits of my own, about 85% of the codebase; 300+ API endpoints; 30 scheduled data jobs)

EDUCATION

PhD, Bioengineering
Rice University, 2013

BS, Biomedical Engineering
University of Texas at Austin, 2008

SKILLSET

• Medical Device Product Development
• FDA Regulatory Strategy & Study Design
• R&D Team Leadership
• Grant & Scientific Writing (NIH/NSF SBIR)
• AI Systems & Agents (Claude Code, Codex, MCP)
• Data Modeling & Pipelines (Postgres, SQL)
• Analytics & Dashboards (KPIs, A/B tests)
• Client-Facing Consulting & Discovery

PERSONAL

• Entrepreneur, avid reader, woodworker, swimmer, father of 3

PROFESSIONAL EXPERIENCE (continued)

• Built management dashboards for revenue and marketing attribution (first click → order) and A/B tests with statistical significance testing
• Deployed a production MCP server giving Claude secure, audited access to live order and operations data (permission-scoped access tokens, rate limits, full request logging)
• Created a team of AI analyst agents (marketing, finance, operations, SEO) that review nightly data snapshots and log tracked recommendations, plus AI-written weekly business briefings
• Launched a Claude-powered SMS assistant for customer inquiries and order capture
• Set guardrails for AI-built software: written decision records, safe database-change rules, automated test suites, and CI checks before anything ships

Independent AI Consulting, Austin, TX
Part-time AI Consultant (2024–present)
• Built an AI prospect-research pipeline for a medical device client: federal NPI provider data → practice-website scanning → Claude enrichment with source-cited, validated output → scored target lists and AI-drafted outreach
• Built a lead-attribution analytics system for an Austin events company: form fingerprinting, nightly booking sync, conversion dashboards, and a Monday digest with alerts

NIH Center for Scientific Review
SBIR/STTR Grant Reviewer (2020–2026)
• Served on 4 NIDCD Scientific Review Groups evaluating SBIR and STTR applications
• Evaluated and scored 100+ NIH proposals against NIH review criteria

Alcon Laboratories, Houston, TX
Business Continuity / Product Engineer (2014–2016)
• Authored 30+ validation protocols for process/material qualification
• Managed 10+ supplier projects on safety, quality, and supply chain risk management

Institute of Orthopedic Research and Education, Houston, TX — *Postdoctoral Research Associate (2013–2014)*

Rice University, Houston, TX
Graduate Research Associate (2008–2013)
• Developed biodegradable polymers for bone regeneration and antibiotic delivery, resulting in 14 peer-reviewed publications and a clinical study
• Managed DARPA and AFIRM-funded projects on craniofacial bone repair

Cellula Enterprises, LLC, Houston, TX
Co-founder and CEO (2012–2013)
• Conducted physician interviews, market analysis, and financial projections for a product designed to detect cancer margins real time during tumor removal surgeries