

JAKE SNEDKER

AI Engineer | Automation Engineer | Agentic Systems

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PROFESSIONAL SUMMARY

I build systems that run without me. **Multi-agent orchestration, RAG pipelines and workflow automation** — 70+ n8n workflows, a falsification engine driven by 6–7 coordinated subagents, and an autonomous outreach agent that operates daily behind deterministic safety gates. Mechatronics engineer by training, so I reach for a deterministic solution when a model isn't the right tool — which is most of the time, and is the judgement most of this field is missing.

SELECTED OUTCOMES

- **Built 70+ n8n workflows ranging from small four-node utilities and reusable sub-workflows to larger multi-stage systems; a handful reached real use** — orchestration, retries, idempotency, error-handling sub-workflows and human-in-the-loop approval gates (counted by n8n's own workflow boundary)
- **Designed a 6–7 subagent research system** that generates hypotheses, attacks them statistically, and exports only survivors as executable code
- **Shipped an autonomous agent that runs unattended daily** with a deterministic Python safety layer — unverified contact routes cannot produce output, with per-run auditing and hard ceilings
- **~85% effort reduction (~640 hours/project)** on an industrial process — achieved in 2017 with VBA and observation, long before AI was an option

CORE COMPETENCIES

Agentic systems: multi-agent orchestration, subagent design, tool-use, autonomous long-running tasks, deterministic guardrails, human-in-the-loop gates

RAG: ingestion and chunking, corpus curation, retrieval design, citation grounding, injection resistance, abstention behaviour

Automation: n8n (advanced), webhooks, API integration, idempotency and retry design, error-handling sub-workflows, Google Apps Script

Platforms: Anthropic and OpenAI APIs, Claude Code, MCP servers, LM Studio and LiteLLM for local routing, Supabase, Docker, Vercel, Hostinger VPS, Cloudflare

Engineering: Python, FastAPI, MQL5, PineScript, VBA, C#/C++, SQL, Next.js/React (AI-assisted)

FEATURED WORK

Snedker Automations — Applied AI & Automation

Founder | 2025 – present

- RAG assistant with a routing orchestrator and four tool sub-workflows: knowledge retrieval over a customer-specific corpus, calendar booking, email drafting, plus intent classification and conversation summarisation.
- **Built to ~90% and deliberately not shipped over latency and booking-integrity concerns.** Shipping a booking system that can double-book is worse than shipping nothing.
- Automated onboarding: site submission → crawl → generated FAQ corpus and improvement list → retrieval chunking → trial delivery.
- Instagram publishing pipeline: AI captions matched to an existing voice, Airtable approval gate, spacing logic, automated posting.

Popper — Multi-Agent Research Engine

Architect | personal R&D | 2026 – present

- **6–7 coordinated subagents** generate hypotheses; a deterministic statistical gauntlet then attempts to falsify them. Survivors are compiled to executable PineScript and MQL5.
- The architecture is the point: **generative breadth gated by deterministic validation.** The LLM proposes; it never decides.
- Typed DSL, orchestration, experiment artefacts, API, automated tests.

Job Hunter — Autonomous Agent with Safety Gates

Personal build | 2026

- Runs unattended daily via scheduled task: sources signals, qualifies fit, identifies a decision-maker, verifies the route, drafts for human review.

- **Safety is deterministic, not prompted** — a Python layer gates every action, so guessed addresses cannot produce output regardless of what the model decides. Prompt-level guardrails alone are not a control.

Strategy Forge — Natural Language to Executable Code

Architect | 2026

- Plain-English strategy description → specification → generated PineScript and MQL5, built on a shared typed DSL as the single source of truth.
- Notably, built end-to-end by an autonomous coding agent under my direction — a working demonstration of how I now build.

PROFESSIONAL EXPERIENCE

Founder & Lead Systems Engineer — Zen Traders Academy

Remote (Germany) | 2023 – present

- Ran daily live technical sessions for 45–50 participants, 30+ attending daily.
- Hand-wrote automated trading systems in MQL5 and PineScript — three years with no AI assistance — including one that passed both phases of live prop-firm evaluation. I adopted AI-assisted coding once I could tell when its output was wrong.

Project Lead — The Pip Side

Remote (Canada-based) | 2022 – November 2023

- Led 15–20 contributors: planned the test programme, distributed work, mentored the team, analysed results, owned direction and scope.
- 150,000+ optimisation results processed weekly with Python filtering pipelines.
- Authored two courses (~65 students) and a book alongside the engineering.

Engineering Intern → Electrical Engineering Assistant — ThyssenKrupp Engineering

Perth, Australia | July 2017 – February 2018

- Observed three project cycles, identified the recurring bottleneck the incumbent engineers had normalised, and was given scope to solve it — the internship was extended so the build could be finished.
- Designed and built an Excel/VBA cable-management database **with the eventual primary user**, shaping the interface around how the work was actually done.
- **Cut a recurring process from 2–3 engineers over 5–6 weeks to one engineer over ~2 weeks — roughly 640 hours and ~85% of the effort per project** (own measurement across four projects).
- Declined a two-year contract offer to travel.

EDUCATION

Bachelor of Science, Engineering (Honours) — Mechatronic Engineering

Curtin University, Perth, Western Australia | 2011–2017

Honours thesis (Distinction): *A Navigation System for Pedicle Screw Alignment in Spinal Surgery* — intraoperative guidance combining AR visualisation, electromagnetic positioning and medical imaging.

Also: Awarded the top-1% prize, Westpac Australian Mathematics Competition | Champion team (team leader), EFY engineering unit

ADDITIONAL

Languages: English (native), German (B1 certified, conversational B2), basic Spanish and Japanese. **Authorisation:** Australian citizen, EU resident with full right to work in Germany/EU.

Career note: On parental leave March 2025 – June 2026, during which the systems above were designed and built.

Beyond work: Four off-grid vehicle conversions built and lived in (Australia, New Zealand, Canada) · summited Kilimanjaro and Kinabalu · licensed skydiver · 30+ countries · three published books and 150+ podcast episodes on trading and performance psychology.