

Samuil Nikolov

AI OPERATIONS · WORKFLOW AUTOMATION

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PROFILE

Production Technology Lead at Dronamics, moving into AI operations and workflow automation. In recent months I have built a set of automation systems in my own time - n8n workflows, self-hosted LLM agents, custom MCP servers, and a Linux GPU server I administer myself. These are personal builds and demos rather than client work, and I document them at samkobuilds.com.

I work AI-assisted, and my strength is specifying a system, wiring it together, hardening it, and debugging it until it runs unattended. I'm looking for a team I can learn from - people more experienced than me, where the expectation is that I go deeper rather than stay where I am. I learn fastest when I'm building something real and someone reviews it.

CORE SKILLS

Automation — n8n (Cloud): webhooks, scheduling, retries, guardrails and dedicated error workflows; human-in-the-loop approval steps via Telegram and Slack.

AI / LLMs — OpenAI, Anthropic Claude, xAI Grok, OpenRouter; local inference with Ollama; RAG on Supabase pgvector; prompt engineering; multi-agent setups with per-agent tool permissions.

AI-assisted build — Claude Code, plus custom MCP servers I built to connect my own applications to my agents. I own the architecture, the testing and the debugging; the code itself is written with AI assistance.

AI media — ComfyUI, Forge, FLUX.1, LoRA training, F5-TTS.

PERSONAL PROJECTS

Self-directed builds and demos. Full write-ups at samkobuilds.com/projects.

Self-hosted multi-agent AI server

- Built and administer an always-on Ubuntu GPU server (RTX 3060 12GB) as a private AI platform, reachable only over a Tailscale private network and never exposed to the public internet.
- Runs three AI agents on different models, each with its own tool permissions: a server-administration agent, an assistant agent for scheduled jobs, and a creative agent for image generation.
- A deterministic health-check script collects server facts on a schedule and only wakes the AI model when something is genuinely wrong - the model is used for judgement, not for reporting. Repeat alerts are de-duplicated so a persistent issue doesn't spam the channel.
- Deliberate, documented security decisions: root-level actions are never delegated to an agent, agents that read untrusted content have their tools stripped, and the admin interface stays on the private network.

Custom MCP servers for agent tooling

- Built MCP servers that expose my own applications to the AI agents as usable tools, so the agents can act on real systems rather than only answer questions.
- One connects my todo app to the assistant agent, so it can read and write tasks. Another connects the local image-generation interface to the creative agent, so image requests render on my own GPU.

samkobuilds.com - portfolio site and content pipeline

- Next.js, Supabase and Vercel site documenting my automation work, with Google OAuth sign-in. I specified the architecture and did the testing and debugging; the code was written with Claude Code.
- An n8n workflow reads RSS feeds every 12 hours, has a model assess each article for relevance, and files drafts into Supabase for review before anything is published.
- Site chatbot answers questions about my projects using vector search over my own write-ups.

Production Assistant

- Bilingual (EN/BG) shop-floor reference tool for production staff: mixing calculator, unit converter, PPE guidance, dark/light theme, and its own mascot and visual identity.
- Delivered as a working demo and pitched to leadership with a proposal for a full web-app version on a Supabase backend. The proposal wasn't funded, but the demo shipped and was presented.

Customer support agent

- Support agent for a fictional EU consumer-electronics retailer: answers policy and FAQ questions from a vectorised knowledge base and looks up live order status from a database.

EXPERIENCE

Dronamics - Sofia, Bulgaria

2021 - present

Cargo drone manufacturer and logistics operator.

Production Technology Lead

2024 - present

- Lead a production team that varies between 4 and 9 people depending on workload.
- Plan and track daily production tasks so they are delivered on time, with minimal waste of materials and time.
- Handle unplanned problems as they come up - material shortages, equipment faults, and last-minute changes to the schedule.
- Track and report production KPIs.

Subject Matter Expert

2023 - 2024

- Tested composite materials and documented the results and the process.
- Wrote work instructions for new materials and processes.

Technician

2021 - 2023

- Produced and maintained composite parts, moulds and tooling.

EDUCATION

BA Marketing - UNWE, Sofia (remote) · 2024 - present

AI Privacy, Security and Regulations - SoftUni · 2026

Prompt Engineering - SoftUni · in progress, expected Sept 2026

First English Language School, Sofia · 2015 - 2020

LANGUAGES & OTHER

Bulgarian - native. English - B2/C1.

Interests: experimenting with AI tools, PC building, video games.