

Vijuksama Hongthongdaeng

Infrastructure, AI & Full-Stack Engineer

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Summary

Self-taught engineer and the sole IT for a 230-person automotive-parts factory — I built the company's entire tech backbone from two repurposed desktops (virtualization, networking, security, an in-house ERP), then put AI to work on top of it, from a Claude-powered document agent to AI email triage — enterprise-grade systems on a near-zero budget.

Skills

Infrastructure & DevOps: Proxmox VE/PBS, Docker, Portainer, Linux, Nginx Proxy Manager, WireGuard, Tailscale, Cloudflare, OpenMediaVault

AI Engineering: Claude API (agentic tool use, vision), agent & prompt design, n8n, Claude Code

Development: Next.js, React, TypeScript, Node.js, PostgreSQL, Drizzle ORM

Networking & Security: Dual-WAN load balancing, IP / subnet planning, AdGuard DNS, Wazuh, Microsoft Defender

Standards & Governance: IATF 16949 / ISO 9001 QMS documentation, AISC security framework, ISO/IEC 27001 baseline

Tools: Figma, Git, PowerShell / Bash

Languages: Thai (Native), English (Working proficiency)

Work Experience

Sole IT · Infrastructure, DevOps & Development

Nozomi Enterprise (Thailand)

Nov 2025 — Present

- Built the company's on-premise infrastructure from scratch on two repurposed desktops — a Proxmox VE + PBS cluster running 7+ virtualized services (NAS, reverse proxy, DNS, VPN, monitoring) with automated nightly backups and near-99% uptime.
- Redesigned the factory network for ~230 staff and 60+ devices: dual-WAN load-balancing + failover, a structured /24 IP plan, and WireGuard / Tailscale remote access.
- Established the factory's information security program under the automotive AISC framework — 24 domains, 150+ documents, ISO/IEC 27001 as internal baseline — authored IATF 16949 / ISO 9001 quality procedures, and delivered company-wide cybersecurity awareness training.
- Automated IT operations with n8n: backup and infrastructure health monitoring, AI-powered email triage, and monthly compliance reports filed into QMS documents after one-click human approval.
- Cut recurring IT costs 45,200฿/year by self-hosting open-source replacements (OpenMediaVault, Wazuh + Defender), and automated daily ops for 50 workstations with PowerShell + RMM into centralized dashboards.

Selected Projects

Rotjana — AI Document Agent

Claude-powered Discord agent that lets the IT team read and update QMS Excel registers in plain Thai — custom agentic loop, confirm-before-write with column-level permissions, multimodal attachment reading, and NFC asset-tag lookup.

Node.js · Claude API · discord.js · Express · Docker

ERP System

In-house ERP replacing fragmented per-department Excel sheets — BOM, raw materials, purchase orders, and MRP forecasting. Built solo as an 8-module modular monolith with enforced public-API boundaries, using a custom AI-driven development pipeline (plan → design → scaffold → test → docs).

Next.js · TypeScript · PostgreSQL · Drizzle ORM · Docker

AI-Ready IT Knowledge Vault

The IT department's entire knowledge base — security framework, SOPs, and QMS registers — engineered for AI consumption: YAML frontmatter contracts define each document's schema, its link to live Excel data, and what the Rotjana agent is allowed to read or write.

Markdown · Obsidian · Claude

Education

B.Sc. Information Technology

Silpakorn University, Faculty of Science — thesis: NFC TCG Deck Tracker (Flutter)

2021 — 2025