

Kaif Nadeem

AI & Workflow Automation · Business Systems · Construction Operations

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PROFILE

Systems and automation builder inside a specialist piling and concrete contractor. I replaced the company's paid ERP with a job management system I specified, tested and rolled out using AI coding tools – it is now used daily by the whole team, from the office to site crews on tablets. I build AI workflows with human approval built in, and I understand the business underneath them from 650+ estimates and running daily operations. Four hackathon awards, including Best Use of Gemma 4 (Manchester, Oct 2026). Looking for an in-house AI automation or business systems role.

ERP replaced own system, live, whole team	650+ estimates produced	4 awards across 3 hackathons	1,100+ automated tests
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CORE SKILLS

AI & automation: LLM workflows (Claude, Gemini / Gemma), MCP servers and tool use, human-in-the-loop approvals, prompt design, API integrations (Xero, Odoo, Google Drive, Better Proposals, ElevenLabs)

Business systems: Odoo implementation and custom development (fields, views, server actions, reports), ERP data migration, requirements and specs, user testing, go-live and staff training

Technical: TypeScript / Node.js, Next.js, Python scripting, SQLite / Prisma, Git and GitHub, Android, automated testing (Vitest, Playwright) – built with AI coding tools; I design, test and own the systems

Commercial & operations: Estimating from drawings, tender preparation, cost and margin analysis, supplier negotiation, Xero reconciliation, payroll hours, cash flow, scheduling field crews and vehicles, advanced Excel / Google Sheets

EXPERIENCE

UK piling & concrete contractor (two sister companies) June 2025 – Present
Estimator, Operations Coordinator & Systems Builder – one of two estimators, now covering whatever the business needs across both companies, including all of its systems.

Systems & automation

- Replaced the company's paid ERP (Odoo) with a job management system I specified, tested and rolled out using AI coding tools: enquiry-to-invoice stage gates, crew planning board and timesheets, site visits, invoicing and debtor tracking, RAMS, and an offline Android tablet app for site crews. **Live since September 2026, used daily by office and site teams; ERP subscription cancelled.**
- Migrated the full job history out of Odoo with a read-only exporter and importer; set up the server, nightly backups, one-command updates and secure remote access for the tablets.
- Owned quality and rollout: 1,100+ automated unit tests and 86 end-to-end tests; tested on real tablets and real data, ran the go-live and trained staff.
- Built an AI connector (MCP server, ~40 tools) so an AI assistant can work inside the job system: per-user hashed keys that can be revoked, read-only tools marked, the assistant told to ask before any change, and every change audit-logged under the user's name.
- Automated office admin with AI workflows: supplier bills into Xero (supplier, dates, VAT and account codes worked out from past bills, approved before entry), new enquiries into jobs and project folders, email triage and estimating templates – saving several hours of admin every week.
- Before the replacement, implemented and developed Odoo from scratch: pipeline stages, custom fields and views, automated / server actions and reports; later audited the custom code to cut its monthly charges.

Estimating & operations

- Produced 650+ estimates in 13+ months from architectural drawings and site surveys, signing off every submission independently.
- Negotiated directly with suppliers; designed bespoke piling layouts for each site.
- Sole daily coordinator for the concrete company: job scheduling, driver dispatch, payments and client communication.
- Tracked field crews and vehicles daily with purpose-built Google Sheets dashboards.
- Took on finance admin: bank reconciliation in Xero, logging staff hours for payroll, cash-flow management and paying supplier invoices.
- Produced 3D visualisations and construction sequences (SketchUp, Blender) and 3D-printed replacement parts for piling equipment.

PROJECTS & AWARDS

- dissPICable – Best Use of Gemma 4**, Hacktoberfest Hack Day Manchester (Oct 2026). Team of three; I picked the idea and led the build: photo-to-character AI rap battle with live crowd voting. Node.js, Gemma 4 (multimodal), ElevenLabs.

- **AI Beat Studio – Best Use of OpenLoft + Applied AI Society Bradford Award**, Bradford Agentic AI Hackathon (Oct 2026). AI music producer desktop app plus an Android pad controller. Electron, Gemma 4, WebSocket, Kotlin.
- **Tameside Hackathon – Winner** (competitive technology problem-solving event).
- **KN Layerworks** – personalised 3D-print shop with order automation: customer text in, ready-to-print multi-colour files, packing sheet and reply out. Python, OpenSCAD.
- **On Track** – native Android routine app in daily use: Bluetooth smart-scale weigh-ins, barcode food logging, recipe scheduler. Kotlin, Jetpack Compose.

EARLIER EXPERIENCE

Architecture Student (Year 1) – Newcastle University	2023 – 2024
Spatial design, technical drawing and building structures; left the five-year route for a faster way into industry, applying drawing knowledge directly in estimating.	
Founder & Product Designer – self-employed 3D printing business	2021 – 2022
Started at 16: designed, made and sold my own VR headset spacers – CAD, production, pricing, listings and fulfilment.	
Crew Member – McDonald’s	2024 – 2025
Kiosk Worker – Etihad Stadium	2022 – 2023

EDUCATION

BA Architecture (Year 1) – Newcastle University, 2023–2024
A Levels – Ashton Sixth Form College: Core Maths A, 3D Design A, Criminology C; BTEC Digital Games Production D*
GCSEs – Audenshaw High School: Maths 9, Statistics 9, Biology 9, Chemistry 8, DT & Systems 8, Physics 7, Computer Science 7, History 7, English Language 6, English Literature 6

INTERESTS

Building AI tools and games, bouldering, padel, tennis, football, cold-water swimming, travelling.