

Self-taught builder who directs AI to turn everyday operational friction into working tools — the judgment to steer and **verify** each build is the real skill, not the syntax. Quality Control Inspector for **commercial HVAC rooftop units** at The Master Group: **equally at home on the distribution-centre floor and in the codebase**, and with technical and non-technical teams alike.

EXPERIENCE

Quality Control Inspector — commercial HVAC rooftop units · The Master Group

2024 — present

- Designed, built, and shipped a **Power Apps + Power Automate + SharePoint** inspection platform running product & outbound QC in **3 distribution centres** — self-initiated.
- Cut average inspection entry from **1:40 to 22 seconds (~80%)** by pre-filling the passing path so inspectors triage exceptions — recovering **40+ hours/year** across ~2,000 inspections.
- Wrote the documentation and trained teams at each centre — earning adoption from three groups with three different ways of working.
- Now developing the next iteration: an **RF-DETR damage-detection model** trained on the platform’s curated dataset, aimed at near-zero inspection overhead and consistent results across centres.

Data Analyst — Financial Analysis · Rim and Tire Co

2023 — 2024

- Prototyped an automated pipeline pulling public financial data into macro-trend models — Python (pandas, NumPy), Power BI, Tableau, Excel — with **GPT-3.5 in the workflow back in 2023**.

Earlier — operations, trades & field work

2015 — 2023

- Fibre-Optic Installer · Granite Electrical — commercial fibre installation & service for business clients, customer-facing field work2022–23
- Mechanical Sales · Lowe Mechanical Sales — translating technical product specs for customers2019–20
- Plumbing Labourer · Centurion Mechanical & Cold Frog2018–19
- Warehouse Management · Centurion Mechanical — receiving, inventory & staging2016–17
- Produce Stocker · Walmart2015–16

PROJECTS — ALL BUILT BY DIRECTING AI AGENTS

QC Inspection Platform

The Master Group

The Power Platform app above — pre-fill-the-pass design from knowing 90%+ of units pass; automated storage, categorization & cleaning of every inspection into a training-ready dataset.

RTU Damage Detection

The Master Group

Detection transformer (RF-DETR, PyTorch) trained on our inspection data; active-learning labelling queue ranked by model disagreement; self-hosted, serving live inference on field photos.

Mini — database engine from scratch

Personal

~52,000-line C++ database engine — transactions, crash recovery, a query optimizer — every piece verified: 110/110 test binaries green under sanitizers.

İktomni — knowledge engine & research agent

Personal

Go document-intelligence engine: PDF → knowledge graph (Neo4j) → cited answers, plus an agentic deep-research loop — running entirely on local models (Llama 3.1 8B) on my own hardware.

SKILLS

DIRECTING AI	Orchestrating coding agents, prompt & context design, verification & eval, rapid iteration
MICROSOFT	Power Apps, Power Automate, SharePoint, Power BI, Excel, Word, Outlook
DATA & CODE	Python (pandas, NumPy), SQL, Tableau, data analysis · Go, C++ (AI-assisted) · ML & computer vision (PyTorch)
FOUNDATIONS	Process mapping, documentation & training · Windows / Linux / macOS, command line, web development