

MOSTAFA MAHMOUD ABDELATY

AI Automation Engineer

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SUMMARY STATEMENT

AI Automation Engineer with 4+ years in software quality and 2+ years building AI automations that run in production. I design n8n workflows and LLM agents that turn WhatsApp text and voice messages into structured data, natural-language searches, appointment bookings and reminders, currently live with real estate brokerages. Founder of Automated Mind, delivering end-to-end systems on n8n, Supabase and WhatsApp, with a QA mindset that builds validation, logging and error alerts into every workflow.

SKILLS

- **AI & Automation:** n8n (self-hosted, queue mode, custom community nodes, JavaScript Code nodes), AI Agents, tool calling, prompt engineering, structured JSON extraction, RAG & Embeddings, voice-message processing, LLM failover routing, MCP, Webhooks, REST APIs, WhatsApp (Evolution API)
- **LLMs:** Claude, Gemini, Qwen3, Groq, Cerebras, Mistral, OpenRouter
- **Languages & Databases:** JavaScript / TypeScript, Python, SQL, Java, Supabase (PostgreSQL, RLS, RPC, Edge Functions, Storage), Firebase, MongoDB
- **Delivery & DevOps:** AI-assisted development (Claude Code), Next.js, React, Flutter, Docker, Linux VPS, Nginx Proxy Manager, PM2, Git
- **QA & Project Management:** ISTQB CTFL, Test Design, Traceability Matrix, Functional & Regression Testing, Selenium WebDriver + TestNG, Postman, Playwright, Jira, TestRail, Agile (Scrum)

EXPERIENCE

Founder & AI Automation Engineer

Apr 2026 – Present

Automated Mind — AI systems for real estate and construction companies

Value added:

- Built and sell a WhatsApp-native real estate CRM powered by n8n AI agents; **live with 2 brokerage clients**, each on an isolated VPS with self-hosted Supabase and n8n in queue mode (3 workers). At one client, agents upload **~300 units** and run **100–120 searches** a month through WhatsApp.
- **AI Listing Upload:** agents send a unit as a WhatsApp message; an n8n AI agent extracts **21 fields** into validated JSON, unifies Arabic and English input into English, maps **18 unit types** with typo tolerance and strips client personal data before the LLM call.
- **AI Unit Search:** agents ask in Arabic or English, including colloquial Arabic price phrases; the agent builds a **13-field filter**, queries Supabase and replies on WhatsApp within seconds.
- **AI Appointment Booking:** books client meetings or calls from a WhatsApp **voice note** (Gemini transcription) **or text**, detects conflicts with existing appointments and warns the agent, then sends WhatsApp reminders before and at the appointment time.
- Built a **300+ compound** reference table with aliases and common misspellings, injected live into prompts for fuzzy project and area matching.
- Workflow errors are logged and pushed as WhatsApp alerts; a manager screen monitors WhatsApp instance status with one-click QR reconnection.
- **Procurement automation (construction company):** digitized the full purchase/supply-order cycle over WhatsApp (request, amount-based approval, supplier handling, reminders) with every step recorded in Supabase; rule-based, low-LLM design kept running cost near zero. Demo approved; production ERP module in scoping.
- In progress: AI-generated bilingual listing descriptions and publishing to Property Finder through its official Enterprise API.

Software QC Engineer

Jun 2026 – Oct 2026

Classera — Saudi-based EdTech "Learning Super Platform"

Value added:

- Tested LMS Revamp modules (Identity & Access Management, Super Admin Portal, Curriculum) across multi-tenancy, role matrices, Arabic/RTL and Hijri/Gregorian dates.

- Designed a **580-case** TestRail hierarchy across **30 stories and 2 end-to-end suites**, mapped to the real portal modules, with coverage and open-questions documents per story.
- Built a Gemini Gem QA assistant, an IAM knowledge base and an interactive HTML documentation hub verified with Playwright on desktop and mobile; reviewed and refined test cases generated by the company's AI agent.

QA Engineer → AI & Automation Engineer

May 2024 – May 2026

Tidal Information Systems — joined as QA Engineer, then took on the AI & Automation role alongside testing

Value added:

- Engineered n8n AI agents that generate test cases from Trello cards, detect duplicate bugs in real time and answer team questions as a system knowledge base, saving an estimated **40% of QA effort**.
- Introduced a traceability matrix and mentored 3 testers, resulting in a **50% reduction in production bugs** and a 70% improvement in system stability.
- Identified **250+ defects** in core HCM and SSO systems, including **20 critical bugs** that prevented major service disruptions.

Evaluation Team Supervisor | Part-time – Remote

Sep 2023 – May 2024

TELUS International

Value added:

- Started as Search Engine Evaluator (Jun – Sep 2023), then promoted.
- Supervised and mentored a remote team of **14 evaluators**, introducing training protocols that boosted team performance and data accuracy by **60%**.

Software Testing Engineer

2022 – 2023

Tabib Click for Clinics Management Systems

Value added:

- Prevented critical data loss by catching a data-integrity bug that deleted patient history after 10 meetings, before release.
- Isolated API defects that appeared only on the mobile app, across web and mobile testing, and wrote video-backed bug reports that sped up fixes.
- Delivered a clinics management system with **near-zero critical bugs at launch** by covering all user paths and edge cases.

PERSONAL PROJECTS

AI-Powered QA Platform (own product) | Next.js 15, Supabase, Jira & TestRail APIs

- Unified QA workspace that syncs Jira and TestRail every 15 minutes (~**1,860 test cases**, ~**640 tickets** in pilot use) with ticket hierarchy and defect origins, a story-to-suite coverage matrix, smart rerun selection and Jira comment posting.
- Roadmap: role-scoped AI assistant per team member, AI test-case generation pushed to TestRail and duplicate-bug detection, with capped LLM cost per seat.

n8n-nodes-panda-free-llm (open source) | TypeScript, LangChain, npm

- Published n8n community node that routes requests across free-tier LLMs (Groq, Cerebras, Gemini, OpenRouter, Mistral) and fails over automatically on rate limits or quota errors.
- Includes a LangChain-compatible Chat Model sub-node for the n8n AI Agent with tool calling and JSON mode; released through v0.4.1.

QA Automation | Selenium WebDriver, TestNG, Postman

- Regression suite of 35+ UI test cases for Guru99 Bank and Automation Exercise; API tests for Trello and Restful Booker covering GET, POST, PUT and DELETE with error handling.

EDUCATION & CERTIFICATES

Bachelor's Degree in Electrical Engineering — Computer and Control Department

2022

El Shorouk Academy

- ISTQB CT-FL | ESTB | 2024 (240221072) • Data Analysis | FWD | 2023
- HCIA-AI | Huawei | 2022 • Web Design | FWD | 2021
- **Currently learning:** UiPath (RPA)

LANGUAGES

Arabic: Native

English: Very Good (professional working proficiency)