

Mehdi Singer

Platform & Systems Engineer

Internal Systems · Automation · Device Lifecycle · AI Workflow Design

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PROFILE

Systems-minded engineer with 15+ years in IT who turns operational problems into reliable, automated, auditable systems. I design and build the internal platforms organisations run on — device-lifecycle and MDM pipelines, deployment automation with queuing, retry logic and audit logging, network segmentation, and internal web tooling. Python/Django builder currently developing an agent-first SaaS platform, with hands-on work designing multi-agent verification workflows. Proven at scale: a deployment pipeline I designed delivered 6,000+ devices for the UK General Election with zero critical failures.

CORE STRENGTHS

- **System design** — device-lifecycle and MDM pipelines, mass enrolment, configuration automation.
- **Reliable automation** — queuing, retry logic, per-device status tracking, secure logging, role-based access, audit trails.
- **Build** — Python, Django, Flask, PostgreSQL; internal web tooling and API-driven workflows.
- **AI workflow design** — multi-agent orchestration with separation of duties and independent verification; human-in-the-loop.
- **Infrastructure** — network segmentation, backup architecture, failure-mode design, consolidation of fragmented systems.

EXPERIENCE

Senior IT — Systems, Automation & Device Lifecycle

Oct 2021 – Present

Hire Intelligence International — Technology Rental Specialists

- Designed a staged device-deployment platform: enrolment is queued and processed in batches with per-device status tracking, automatic retry on failure, red-flag alerting, and role-based access — replacing one-at-a-time manual enrolment.
- Scaled deployment throughput from ~400–500 to 1,000+ devices per month; delivered 6,000+ devices for the UK General Election across Windows, macOS, iOS, Android and VR with zero critical failures.
- Engineered security and observability into the platform: secrets never written to logs, layered access permissions, and a full audited change history.
- Consolidated three separate MDM platforms (Android, iOS, macOS) into a single Miradore-managed system; redesigned network topology to isolate the imaging/WDS network from corporate traffic.
- Designed an end-to-end asset-recovery system — technician form with database lookup and evidence capture, approval routing, automated customer comms, and finance reporting with a full audit trail; recovered £60k+ of £100k+ tracked damages in its first year.
- Re-architected company infrastructure: segmented the technical, office and phone networks, and automated backups across three locations to remove single points of failure.
- Integrated AI into operational workflows with human review — script and snippet generation, document summarisation, and an email-triage automation that verifies the sender domain and routes summarised leads to the sales pool.
- Built internal web applications (Python/Flask, SQLite, HTML/JS/CSS) for asset management and workflow automation; mentored and trained junior technicians.

Founder & Director — Private Technology Systems

Sep 2019 – Present

Central Technologies Limited (Self-employed)

- Design and run end-to-end technology environments for private clients: system architecture, network security, device management, backups, and ongoing reliability.
- Retained long-term on the basis of technical competence, reliability, and discretion as sole IT advisor to high-net-worth clients.

IT Technician / Field Engineer

2003 – 2021

Computer Doctors Lab Ltd & earlier roles (London & Iran)

- Rebuilt and scaled networks for growing SMEs under time and budget pressure — diagnosing needs from incomplete information and delivering working systems fast (clients incl. Christian Louboutin, Sky B2B, Burberry, Harvey Nichols); 99%+ success rate.
- Earlier infrastructure roles: progressed from hardware technician to infrastructure lead, digitising operations and designing networks across multiple organisations.

SELECTED PROJECTS

UK General Election — Device Deployment Platform

Project

MDM · multi-platform · queued pipeline with retry & audit

- Planned and built the pipeline that configured and deployed 6,000+ devices across five platforms with staged enrolment, retry logic, and zero critical failures.

Multi-Agent Verification Workflow

Project

Multi-model orchestration (Claude, OpenAI, Google) · Markdown-defined agent specs

- Designed a workflow where separate agents plan, execute, and independently verify each task in a loop, with automated web-based verification logging into a live site to confirm outcomes — built around separation of duties so model output is never treated as authority.

AI-First SME SaaS Platform

In progress

Python · Django · PostgreSQL · Tailwind · agent-first architecture

- Designing and building an agent-first platform for SME office management — leave, overtime, expenses, documents, appointments, internal requests, and task management — replacing fragmented email and paper processes.

TECHNICAL SKILLS

- **Systems & Platform** — device lifecycle & MDM pipelines (Miradore; tested Mosyle, Hexnode), mass enrolment & configuration automation, network segmentation & topology, Active Directory & Group Policy, Windows Server, Exchange, VPN, backup architecture.
- **Development & Automation** — Python, Django, Flask, PostgreSQL, SQLite, JavaScript, HTML, Tailwind CSS, REST/API workflows, internal web tooling, scripted deployment.
- **AI Systems** — multi-agent orchestration, separation-of-duties verification loops, agent-first application design, AI-augmented operational workflows with human-in-the-loop review.
- **Reliability & Security** — role-based access, secure logging, audit trails, failure-mode and retry design, three-location backup.
- **Professional** — technical leadership, mentoring, large-scale delivery, stakeholder-facing problem solving, English & Farsi (fluent).