David Robinson

Clinical safety, governance and system operations · Applied AI · RN (Adult), ENP, V300 Independent Prescriber

Nottingham, UK
NMC registered (Sub-Part 1, RNA Adult)

PROFILE

Senior UK healthcare professional with an unusual combination: frontline clinical expertise, patient safety and governance, system-level operations, and hands-on technical skill. I spent over 20 years in urgent, emergency and community care, including more than a decade as an autonomous practitioner and independent prescriber for patients of all ages. From 2021 to 2026 I worked at Integrated Care Board level, first in quality assurance and patient safety, then leading system-wide urgent care operations in the System Coordination Centre.

Safe healthcare AI needs this mix at every stage, not only clinical validation. I can evaluate and red-team model outputs, design rubrics and reference answers, and apply safety and governance thinking: risk, incident learning and NHS assurance frameworks. I also know how NHS services and data really work, and can translate between clinicians, operational leaders and technical teams. Since leaving the NHS in June 2026 I have designed, built and tested my own LLM-based systems, so I understand how models behave, where they fail and how they fit into real workflows.

WHAT I BRING TO HEALTHCARE AI

- **Clinical reasoning across a broad case mix:** minor injury and minor illness in adults and children, emergency department work (majors, minors, resus, triage), multi-system major trauma, school and occupational health.
- **Guideline-based, safety-netted practice:** over a decade of autonomous urgent care consultations working to NICE guidance, identifying red flags, planning the next investigation or referral, and giving safety-netting advice.
- **Safety-critical review:** trained in patient safety investigation, thematic analysis and oversight; years of reviewing serious incident reports and identifying root causes, including where an agreed solution was unworkable.
- **Prescribing and pharmacology:** V300 independent prescriber (PGCert, Distinction); managed prescription processes for an urgent care centre.
- **Writing gold-standard material:** authored clinical SOPs, policies, guidelines, a Trust-wide user guide, training programmes, board papers and business cases.
- **UK health system knowledge:** NHS urgent and emergency care pathways, commissioning, NHS England oversight and quality frameworks, PSIRF.
- **Applied systems thinking:** developed through holistic clinical practice and system leadership, from undifferentiated patients to real-time flow across an urgent care system, and in tracing recurring harm to design and process rather than individual error. A deep interest in human factors and safe work systems design.
- **Data literacy:** BSc Psychology (research methods and statistics); NHS England Making Data Count (SPC); qualitative and quantitative analysis for audit, service evaluation and assurance.
- **Applied AI skills:** prompt engineering and prompt chaining, agent and tool integration (MCP), multi-step AI research workflows, and critical evaluation of LLM output for accuracy and failure modes. Details below.

APPLIED AI WORK

Jun 2026 – present, self-directed

Since June 2026 I have designed, built and tested my own AI systems, working daily with Claude, Microsoft Copilot and locally hosted models.

- **AI adoption in an NHS team:** introduced Microsoft Copilot to the System Coordination Centre through a shared prompt library and a "second reader" prompt for system call notes (see Experience).
- **mem-local, a personal AI memory system:** designed and built a local knowledge store (SQLite with vector search, full-text search, a graph of linked entries and time-versioned records) served to Claude through an MCP server. Every write passes a human approval step, so the model proposes and a person decides. In beta testing.
- **Diagnosing and fixing model failure modes:** identified that LLMs reason unreliably about dates and relative time, and wrote a reusable Claude skill that grounds every date calculation before the model answers.
- **Critically supervised AI research:** directing a structured, deliberately AI-authored research project on whether healthcare scandals are becoming more frequent. I set the method and challenge the outputs, for example correcting reliance on Never Events data and flagging the switch from the Serious Incident framework to PSIRF as a confound in incident counts.

- **Tool and agent integration:** built an MCP server for a self-hosted recipe app, and connected Claude to fitness, file and smart-home data; designing multi-stage research prompt chains (plan, gather, debate, deliver) across several search agents.
- **Applications built with AI coding tools:** CasaVista, a pricing tool for rental properties, deployed in Docker on my self-hosted home lab (Proxmox, Unraid, Home Assistant, local models via Ollama, Git and GitHub); a children's road-safety programme for families, in development.
- **Structured learning:** online courses and workshops (AI chat, automation, vibe coding, skills, research generation); a self-directed curriculum in advanced prompt engineering and agent chaining; documenting the work in an Obsidian knowledge base for publication. Currently studying machine learning basics.

EXPERIENCE

System Coordination Centre (SCC) and EPRR Duty Commander — NHS Nottingham & Nottinghamshire Integrated Care Board
May 2025 – Jun 2026 (Band 8a secondment)

- Led day-to-day operational management of the System Coordination Centre for the Nottingham and Nottinghamshire urgent and emergency care system, on a seven-day shift pattern.
- Chaired system escalation calls with acute, ambulance, community and social care partners; weighed incomplete, fast-changing information to agree actions that relieved operational pressure, and sought assurance that they were delivered.
- Managed OPEL escalation and action cards, and delivered system status and assurance to NHS England.
- Triangulated performance data with narrative intelligence from partners, combining public and enterprise data sources to give a fuller picture of system pressure.
- Led the SCC's early adoption of AI. Designed a Microsoft Copilot prompt library of 12–15 prompts for the wider team, covering meeting preparation and summaries, catching up after leave, drafting documents and executive summaries, and brainstorming. Colleagues had begun contributing their own prompts by the time I left.
- Built a 125-line Copilot prompt, refined over about 14 iterations, that acts as a "second reader" to check the twice-daily system call notes, rather than replacing human note-taking.
- Contributed to the system's emergency preparedness, resilience and response (EPRR), including incident response and winter and surge planning.
- Directed SCC team colleagues on shift and deputised within the SCC and EPRR leadership team.

Quality Manager — NHS Nottingham & Nottinghamshire Integrated Care Board
Oct 2021 – Jun 2026 (Band 7; seconded to the SCC from May 2025; voluntary redundancy)

- Quality assurance and improvement across all quality domains for a large acute trust under enhanced surveillance, the regional ambulance trust and community providers; team portfolio included urgent care across the Integrated Care System.
- Reviewed serious incident and patient safety investigation reports, discussed findings with providers and agreed assurance; risk monitoring and profiling; contributed to system quality reports.
- Key role in developing system processes for assurance and improvement around harm caused by delays in urgent and emergency care pathways, working with the System Coordination Centre and patient safety colleagues across the system.
- Worked with NHS England on assurance of virtual wards and criteria-led discharge, and with regional Directors of Nursing on discharge workstreams.
- Led development of an information sharing and escalation framework, and a redesign of the team's filing system that merged four systems; both gained wider attention in the organisation.
- Developed internal SOPs and the team's collaborative use of IT; line managed the team's Quality Officer.

Senior Clinical Practitioner — Nottingham CityCare Partnership (Nottingham Urgent Treatment Centre)
Sep 2020 – Oct 2021 (Band 7; part-time, concurrent with the CLCH project until Jan 2021)

- Autonomous assessment and management of patients of all ages with undifferentiated conditions, mainly minor injury and minor illness.
- Lead for minor injuries and IT; line management responsibilities.

Senior Nurse and Clinical Consultant — Central London Community Healthcare NHS Trust and West London GP Federation
Apr 2020 – Jan 2021 (Band 8a)

- Helped set up a COVID-19 home-visiting triage service in a multidisciplinary team, keeping vulnerable patients out of hospital; led data collection and analysis to monitor quality and outcomes with providers and commissioners.
- Provided clinical leadership on standard operating procedures and helped design the service evaluation model.
- Wrote a proposal to redesign an urgent care centre and pilot a community-based Same Day Emergency Care service; led the business case from mandate to project plan, wrote board papers for three organisations and secured buy-in.

Clinical Lead and joint Service Lead — St Charles Urgent Care Centre, CLCH NHS Trust
Feb 2018 – Apr 2020 (Band 8a)

- Line managed trainee Advanced Nurse Practitioners and designed their training pathway; wrote and delivered much of the in-house training.
- Responsible for most departmental audit, the prescription management process, pathology result reporting, and policies, procedures and guidelines (routine, incident-driven and for service development).
- Delegated responsibility for a budget of about £1.75m; lead recruiter and rostering.
- Part of the leadership team that upskilled the nursing workforce, giving a broader-skilled team and savings of over £100,000 a year with patient safety assured throughout.
- Led the department through the Grenfell Tower fire response and the early stages of COVID-19; held service-level responsibility for emergency preparedness.

Emergency Nurse Practitioner (Band 7) and Trainee Nurse Practitioner (Band 6) — CLCH NHS Trust
Nov 2014 – Feb 2018

- Independent consultations for patients from birth upwards: assessment, diagnosis, treatment and referral across a wide range of specialities.
- Implemented SystmOne electronic pathology reporting with Imperial College Healthcare and wrote the Trust-wide user guide; supported the migration from Adastra to SystmOne.

Staff Nurse / Senior Staff Nurse, Major Trauma — Imperial College Healthcare NHS Trust
Aug 2011 – Nov 2014

- Care of level 1 and 2 patients with multi-system major trauma; managed the unit at night, reporting to the site manager; lead mentor for student nurses.

Nurse / Senior Nurse and Health Adviser — The American School in London
Sep 2005 – Jul 2011

- Autonomous walk-in health service for about 1,200 pupils aged 4–18, with health screening and occupational health for 300 staff; led the school's 2009 swine flu response; managed the department and its budget.

Staff Nurse / Senior Staff Nurse, Emergency Department — Whittington Health NHS Trust
Apr 2003 – Jul 2005

- Rotated through majors, minors, observation ward, resus and triage; acted as nurse in charge.

EDUCATION AND QUALIFICATIONS

- PGCert Non-Medical (V300) Prescribing — London South Bank University, Distinction, 2019
- Graduate Certificate in Healthcare Practice — St George's University of London / Kingston University, 2017
- Mentorship in Professional Practice — Buckinghamshire New University, 2013
- PGDip Nursing (Adult) — University of Leeds, Merit, 2003
- BSc (Hons) Psychology — Newcastle University, 1998

SELECTED TRAINING

- Patient safety: investigation, thematic analysis, oversight and after action reviews — HSSIB, 2023–24
- Making Data Count (statistical process control) — NHS England, 2023
- Foundations of Health Care Systems Engineering — online course, 2023
- Urgent and Emergency Care study days — DREEAM, 2021
- Improvement Analytics — CLCH, 2019

ADDITIONAL

- Languages: English (native), Spanish (B1)
- Territorial Army, around 2010–2012, including CBRN training