

FINTAN LYONS

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fintanlyons.com | English - Native | Spanish - B1 | British, Irish and Australian Citizenship

EDUCATION

University of Leeds 2020 – 2025
MEng Mechanical Engineering (Industrial): Honours Class 1

The London Oratory School 2013 – 2020
A Levels x 4: Maths A*. Further Maths A. Physics A. Chemistry A.

WORK EXPERIENCE

Kaizen Institute Western Europe Nov 2025 – May 2026
Continuous Improvement Operations Consultant

- Delivered lean improvement projects and week-long Value Stream Analysis workshops for clients in industrial services, pharmaceuticals, education, and repairs and maintenance.
- Reviewed ~250 IT systems (~£500k annual spend) at an independent school through staff surveys and interviews; built a costed register with accountable owners and a recurring review process to remove redundant systems.
- Rolled out daily KPI meetings to 15-20 teams at a London repairs and maintenance company: trained team leaders, audited meetings and built Power BI dashboards to track adoption.
- Built four AI tools in Python (OpenAI and Claude APIs), including one that turns photos of workshop post-it walls into PowerPoint summaries and one that standardises and generates job descriptions.
- Presented to senior client leadership teams on lean improvement principles, including a two-hour session on commercial performance (leads, conversion, sale value, retention).

Jaguar Land Rover (JLR) Jul 2023 – Jun 2024
Product Engineering Hardware and Mechatronics Undergraduate

- **Test Engineer, Component & Sub-System Testing:** Delivered 19 vibration and 4 key life tests and led a brake pedal durability test, adapting PLC programs to control pneumatic rigs in climatic chambers and diagnosing faults.
- **Built an automated Python pipeline** (Jira REST API → Google BigQuery → Tableau) tracking 1,500+ tests and forecasting departmental running costs; escalated to senior management as a tool for workload planning.
- **Automated Driving Motion Control Engineer (Internal Placement):** Tested and demonstrated the functionality of a brake-to-steer vehicle and developed MATLAB code to analyse the vehicle performance.
- **Steer-By-Wire Engineer (Internal Placement):** Wrote MATLAB code to analyse controllability of a brake-to-steer vehicle using full-vehicle simulator data, informing the next stage of the technology development.

PROJECTS

Pub Tracking App: Pub? Nov 2025 – Present
Designed, built and launched solo; live on the iOS App Store with 80+ installs (Android in testing). JavaScript front end, Supabase backend and Cloudflare storage, with scheduled notifications. Built the London pub dataset by web scraping, with in-app reporting so users can correct errors and add missing pubs.

Year 4 Collaborative Inspection Pipe Robots 2024 – 2025
Led a team of 5 building a swarm of modular robots that link together to overcome obstacles in pipes. Designed a 10-state finite-state-machine control algorithm to centre, align and link the robots, selected sensors through physical testing, validated linking of 5 robots in a Gazebo simulation, and built 3 physical robots running ROS2 over Wi-Fi.

TECHNICAL SKILLS & OTHER

Engineering & CAD: SolidWorks (CSWA), CATIA, Ansys, Abaqus, MATLAB

Hardware & Test: PLCs, Pneumatic Test Rigs, Arduino, ROS2, Gazebo

Software & Data: Python, Google Cloud (BigQuery), REST APIs, Tableau, Power BI, Jira, OpenCV

AI Assisted Development: Cursor, Claude Code, Codex, LLM APIs, Supabase

Other: UK Driving License, Santiago de Compostela Spanish Summer School (2025), Running, Chess, Salsa