FINTAN LYONS

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fintanlyons.com | English - Fluent | 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 – Present**
Continuous Improvement Operations Consultant

Delivered Value Stream Analysis workshops and Kaizen improvement projects across a range of sectors including industrial services, pharmaceuticals, education, and repairs and property maintenance.

- Identified millions of pounds financial gains and led lean transformation programmes — from KPI meeting rollouts across 20+ teams to process improvements in commercial, financial, operations and IT.
- Developed four AI tools to streamline client workflows and improve internal processes.

Jaguar Land Rover (JLR) **July 2023 – June 2024**
Product Engineering Hardware and Mechatronics Undergraduate

Worked as a Test Engineer within the Component Sub-System Testing (CST) department, supported the delivery of 19 vibration tests, 4 KLT tests and led a brake durability test. Responsibilities included procuring and preparing fixtures, co-ordinating rig builds with technicians, setting up tests (creating PLC code or resonant sweeps), running tests and reporting results. Developed an automated python script using Jira APIs and Google Big Query, enabling Tableau dashboards to track 1500+ tests and forecast CST running costs.

Undertook internal placements:
• **Automated Driving Motion Control Engineer:** Tested and demonstrated the functionality of a Brake to Steer vehicle and developed MATLAB code to analyse the vehicle performance.
• **Steer By Wire Engineer:** 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.

ACADEMIC PROJECTS

Year 4 Collaborative Inspection Pipe Robots **2024 - 2025**
Led a team of five, to create a swarm of autonomous collaborative robots that interconnect to overcome obstacles in pipes. Individually, developed, tested and integrated a linkage method and a pre-linking finite state control algorithm which connected a scalable number of robots in a Gazebo simulation. Built and implemented the control algorithm on three physical robots.

TECHNICAL SKILLS

MATLAB **Solidworks (CSWA)** **Microsoft Office** **Arduino (C++)** **Abaqus** **Python** **Power Bi**

Google Cloud Platform (GCP) **PLC's** **Rest API's** **CATIA** **Ansys** **ROS2** **Gazebo** **Cursor**

OTHER

Universidad de Santiago de Compostela – Spanish Summer School (July – August 2025)
Hobbies: Travelling (Central Asia, Central America and Morocco), Running, Chess, Salsa and Learning Spanish