

Roy Lewis

Telephone: 07823550747 | Email: alroylewis@hotmail.co.uk

PROFILE

A highly experienced Engineering Manager, offering a proven track record of success in operational leadership, project management, and engineering practices within top-tier organisations such as Exxon Mobil and Honeywell. Recognised for expertise in P6 Primavera scheduling, Six Sigma Lean methodologies, and PRINCE2 project management, adept at driving significant advancements in efficiency, safety, and operational performance. Demonstrates a strong capacity for strategic planning, team development, and stakeholder engagement, coupled with a robust analytical skill set and a commitment to continuous improvement.

KEY SKILL

Project Management

- Expertise in overseeing large-scale engineering projects using P6 Primavera, ensuring timely delivery and adherence to specifications.
- Skilled in applying PRINCE2 methodologies to enhance project structure, governance, and workflow efficiency.

Team Leadership and Development

- Successfully led and expanded a team of planners by instituting a comprehensive career development program, resulting in high retention and team growth.
- Designed and implemented an internal academy to transition trades workers to office roles, significantly boosting internal career mobility and job satisfaction.

Operational Efficiency

- Developed and refined maintenance operations for major chemical plants, employing Six Sigma methodologies to reduce downtime by 30%.
- Implemented digital scoreboards and KPI tracking to enhance visibility and performance monitoring, fostering a culture of accountability and continuous improvement.

Strategic Planning and Execution

- Delivered strategic presentations to senior executives, translating complex data into actionable insights and securing buy-in for operational changes.
- Engineered and executed layout and process enhancements for manufacturing lines, notably for essential COVID-19 response products, aligning with critical health standards and demands.

Conflict Resolution

- Effectively managed and resolved interpersonal and professional conflicts through proactive communication and structured mediation strategies.
- Developed a framework for addressing and resolving operational issues on-site, improving team dynamics and operational cohesiveness.

Consultancy and Business Development

- Provided consultancy services for maintenance departments, improving operational strategies and securing contracts for continuous service provision.
- Leveraged industry expertise to foster business development, contributing to the expansion of company reach and service capabilities.

Technical Proficiency and Innovation

- Advanced user of engineering and project management software, including Microsoft Project, SAP, and CATIA, enhancing project tracking and results.
- Innovated machine fixture designs and software modifications to enhance production efficiency and equipment longevity.

Safety and Compliance

- Championed safety initiatives, significantly mitigating risk and aligning operations with stringent regulatory standards.
- Implemented changes that consistently improved reliability and safety metrics, reinforcing a safe working environment.

Stakeholder Engagement

- Strengthened relationships with key clients and stakeholders through regular updates, transparent communication, and alignment of project goals with client expectations.
- Negotiated and secured vital contracts and agreements, ensuring long-term business relationships and project success.

Continuous Learning and Professional Development

- Achieved Chartered Engineer status, reflecting a commitment to professional standards and ethical practice in engineering.
- Actively engaged in mentoring engineers, promoting professional development and readiness for chartered qualifications.

WORK EXPERIENCE

Bilfinger – Maintenance Engineer

Fawley, Southampton, UK | 2021 - Present

- **Leadership and Team Development:** Pioneered the creation of a departmental academy that transitioned trades workers into office positions, enriching staff capabilities and creating three new roles. Developed a bespoke career mapping system that aligned personal goals with company objectives, significantly enhancing staff retention and satisfaction.
- **Strategic Management and KPI Implementation:** Initiated and developed a comprehensive KPI framework using digital scoreboards to measure departmental outputs, enabling transparent performance tracking and improvements. Empowered team members by involving them in the performance feedback process, fostering a proactive workplace culture.
- **Consultancy and Operational Improvements:** Acted as the lead consultant for maintenance strategy overhauls at INEOS and ExxonMobil facilities, introducing advanced digital and operational enhancements. Achieved a Bilfinger Maintenance Analysis certification, securing extended contracts and fostering client trust and satisfaction.
- **Recruitment and Conflict Resolution:** Orchestrated full-cycle recruiting processes, from designing interview protocols to making critical hiring decisions, effectively expanding the team size. Applied conflict resolution strategies to address and mitigate interpersonal and workflow conflicts, maintaining a harmonious work environment.
- **Client Relations and Project Management:** Utilised Microsoft Project for the meticulous management of onsite projects,

delivering consistent updates through detailed reports to stakeholders, ensuring project alignment with client expectations and contract specifications.

Honeywell – Senior Manufacturing Engineer

Portsmouth, UK | 2018 - 2021

- **Automation and Process Efficiency:** Maintained and enhanced over 300 automation machines, reducing unplanned downtime by 30% through strategic Six Sigma projects. Implemented innovative fixture designs and software updates that increased machine productivity and extended operational life.
- **COVID-19 Response Initiative:** Led the rapid development and deployment of a manufacturing line for oxygen sensors for ventilators during the COVID-19 pandemic. Managed design, compliance, and production under tight deadlines to meet critical national healthcare needs, collaborating with Dyson and the NHS.
- **Equipment Development and Procurement:** Spearheaded the development and procurement processes for new manufacturing equipment, enhancing technological capabilities and production efficiency. Coordinated with vendors and internal teams to ensure seamless integration of new technology into existing processes.
- **Maintenance Scheduling and Project Oversight:** Organised and directed maintenance operations using Microsoft Project, minimising disruption to production and maximising machine availability. Developed and maintained effective maintenance schedules, aligning them with production demands and operational capacities.
- **Stakeholder Engagement and Reporting:** Conducted regular presentations and reports to senior management and stakeholders, outlining project progress, challenges, and strategic opportunities. Successfully advocated for and implemented changes based on data-driven insights, enhancing overall manufacturing effectiveness and safety.

GE Aviation – Assembly Manufacturing Engineer

Bristol, UK | 2016 - 2018

- **Assembly Line Management:** Managed and optimised assembly processes for aviation components, reducing cycle time and costs while maintaining high-quality standards. Implemented lean manufacturing principles to streamline operations and reduce waste.
- **Technical Problem Solving:** Identified and resolved technical issues in the assembly line, utilising advanced engineering tools and methodologies to diagnose and address root causes. This significantly improved product quality and worker safety.
- **Process Documentation and Standardization:** Developed comprehensive process documentation, establishing standard operating procedures that enhanced repeatability and reliability in production. Trained new engineers and technicians, ensuring compliance and consistency across the board.
- **Innovation and Continuous Improvement:** Introduced technological enhancements and tooling upgrades to improve assembly efficiency and precision. Led cross-functional teams in collaborative innovation initiatives to refine production techniques.
- **Quality Assurance and Control:** Oversaw quality control measures, ensuring all engineering outputs adhered to strict aerospace standards and regulations. Conducted regular quality audits and coordinated with quality assurance teams to implement corrective actions promptly.

EDUCATION

Chartered Engineer (CENG), Institute of Mechanical Engineers (IMechE)

- 2020

Master of Science in Engineering Management (Distinction)

- University of the West of England
- 2016
- Key Modules: Advanced Manufacturing, Project Management, Lean Engineering, Technical Business Operations

Bachelor of Engineering in Mechanical Engineering (2:1)

- University of the West of England
- 2015
- Key Modules: Operations Quality & Management, Stress Analysis, Engineering Design

BSc (Hons) Engineering Foundation

- University of the West of England
- 2011

Professional Development Courses

- Design Course, Magic Touch UK, 2010
- A Levels: Communication Studies, Business Studies, Product Design, Barton Peveril College, 2009

Technical Proficiencies

- Software Packages: Microsoft Office, Power BI, Primavera P6, SAP, CATIA, Autodesk Inventor, SolidWorks, Forms 2 Mobile, Microsoft Project
- Programming: Python (Intermediate)