

# Paul Thomas

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Hold a valid UK driving license, Ready to relocate

## Professional Summary

Dedicated Mechanical Maintenance Engineer with a strong foundation in mechanical systems, extensive NHS experience, and a proven record of managing high-pressure projects, including NHS steam shutdowns. Skilled in preventive maintenance, troubleshooting complex systems, and ensuring compliance with health and safety standards. Known for mentoring apprentices and fostering growth among craftspersons, supporting the development of a skilled, competent workforce. Proficient in HVAC, BMS, medical gas, and emergency planning, with a commitment to continuous learning and quality in engineering maintenance.

## Key Skills

- **Mechanical Systems Expertise:** PPM's of HVAC, Steam boilers, BMS, decontamination, and medical gas systems.
- **Technical Leadership:** Training and mentorship, apprentice development, and team supervision.
- **Project Management:** Managing contractors, writing specifications, quality control, and clerk of works duties.
- **Compliance & Safety:** Health and safety regulations, asbestos management, emergency planning, and statutory compliance.
- **Software Proficiency:** CAD, CATIA, NX Nastran, Matlab, LaTeX, MS Office Suite.
- **Troubleshooting & Maintenance:** Diagnosis and repair of mechanical, electrical, and plumbing faults across complex systems.

## Professional Experience

### Mechanical Maintenance Engineer

ASPH NHS Trust, Surrey, United Kingdom  
Nov 2023 – Present

- Train, mentor, and support craftspersons and apprentices in developing technical skills for career advancement within NHS estates management.
- Conduct task requirement assessments, offering technical expertise for both clinical and non-clinical applications.
- Oversee maintenance of essential systems, including HVAC, BMS, medical gas, decontamination, and natural gas systems, ensuring optimal functionality and safety.
- Carry out PPMs and emergency repairs, ensuring health, safety, and statutory compliance in alignment with NHS protocols.
- Execute duties in emergency and high-pressure environments, including complex steam system shutdowns, honing skills in time-sensitive troubleshooting.
- Manage contractor engagements, from specification writing to quality assurance, supporting consistent delivery of high-standard maintenance services.

### Mechanical Maintenance Engineer

Flamingo Land Amusement Park (During MSc Studies)  
Jan 2021 – Jan 2023

- Ensured safety, functionality, and reliability of amusement park rides and mechanical systems through routine inspections and swift troubleshooting.

- Collaborated with design and operations teams to upgrade attractions, enhancing safety standards and energy efficiency.
- Maintained documentation for regulatory compliance, aligning with ASTM and ISO standards for mechanical systems.

## Education

### **MSc Mechanical Engineering (with Advanced Practice)**

Teesside University, United Kingdom

Grade: Distinction

Jan 2021 – Jan 2023

### **B.Tech Mechanical Engineering**

TKM Institute of Technology

Grade: Distinction

Sep 2015 – Jun 2019

## Certifications

- Competent Person HVAC (HTM 03) – City and Guilds (Mar 2024)
- L2 Installation and Maintenance of Plumbing and Heating Systems (Aug 2024)
- Steam Plant Maintenance – City and Guilds (2024)
- Fundamentals of Steam Boilers (Jan 2024)
- Health and Safety Training (Jun 2024)
- Manual Handling (Feb 2024)
- Water Regulations (Aug 2024)
- Asbestos Awareness Training (Jun 2024)
- Confined Spaces Training (Jul 2024)
- Ladder Training (Sep 2024)
- Lift Service and Maintenance (Jul 2024)

## Projects & Achievements

- **NHS Steam Shutdown Project:** Led cross-functional teams to successfully conduct major steam shutdowns, ensuring compliance with time-sensitive NHS regulations and minimizing service disruption.
- **Nano-Technology Radiator Research:** Conducted a successful research project in undergraduate studies, achieving a 10% improvement in heat transfer efficiency in automotive radiators by integrating Al-MWCNT.
- **Energy Efficiency Enhancements:** As a Research Assistant at Teesside University from July 2022 to January 2023, I conducted research on a diesel additive blend to assess its impact on engine efficiency and emissions. The study demonstrated that specific additive ratios improved fuel efficiency and reduced NO and NOx emissions, achieving results comparable to EN590 standards without requiring engine modifications.