

James Harrison

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PROFESSIONAL SUMMARY

Senior Dismantling Engineer with over 12 years of experience planning the deconstruction of large-scale industrial facilities. Proven track record of reducing project timelines by 15% through optimised sequencing while maintaining a zero-incident safety record. Expert in hazardous material remediation and asset recovery strategies for FTSE 100 manufacturing clients.

WORK EXPERIENCE

Senior Dismantling Engineer | Keltbray Decommissioning | London, UK

May 2018 - Present

- Managed a £10M decommissioning project for an offshore gas platform, finishing 10% under budget through strategic asset liquidation.
- Developed proprietary deconstruction sequencing software that improved onsite operational efficiency by 18%.
- Supervise a team of 4 junior engineers and 40 field technicians, ensuring 100% compliance with HSE and CDM 2015 regulations.
- Negotiated scrap metal contracts that increased project revenue by £650,000 via direct-to-mill partnerships.
- Conducted over 50 detailed structural surveys for high-risk manufacturing sites across the North West and Midlands.

Project Planning Engineer | Erith Group | Dartford, UK

Aug 2013 - Apr 2018

- Spearheaded the dismantling of a 45,000 sq. m. automotive assembly plant, recovering 95% of structural steel for reuse.
- Reduced hazardous waste disposal costs by £95,000 by implementing an on-site soil remediation system.
- Created comprehensive 3D deconstruction simulations using BIM to identify potential structural collapse risks before work began.
- Successfully maintained a zero Lost Time Incident (LTI) record over 250,000 total man-hours.
- Facilitated weekly safety briefings and technical training sessions for multi-craft demolition crews.

Junior Field Engineer | WSP Structural | Leeds, UK

Jun 2010 - Jul 2013

- Assisted in the planning of 15 commercial building dismantling projects in dense urban environments.
- Provided daily onsite monitoring of vibration and noise levels to ensure compliance with local authority ordinances.
- Drafted detailed technical reports and site maps for senior engineers using AutoCAD.
- Verified the isolation of all utilities and hazardous energy sources before deconstruction activities commenced.

EDUCATION

University of Manchester | Master of Science | Structural Engineering

Sept 2008 - May 2010

University of Sheffield | Bachelor of Engineering (Hons) | Civil Engineering

Sept 2004 - May 2008

SKILLS

Structural Analysis, AutoCAD & BIM Modelling, Resource Recovery Planning, Hazardous Materials Remediation, Heavy Machinery Coordination, Seismic Load Calculations, CDM 2015 Regulations, Project Budgeting & Estimating, Environmental Waste Protocols, Vendor & Subcontractor Management, Site Safety Auditing, Critical Path Method (CPM)

CERTIFICATIONS

Chartered Engineer (CEng) | Institution of Civil Engineers (Mar 2014)
NEBOSH Construction Certificate | NEBOSH (Nov 2011)

LANGUAGES

English (Native)
French (B2 Upper Intermediate)

ACTIVITIES

Institute of Demolition Engineers (IDE)

Full member contributing to the development of new safety standards for industrial dismantling.

Sustainable Construction Forum

Regular attendee and guest speaker on topics of material circularity and brownfield redevelopment.