



HAKIM B. ABBAS **BSc MSc CEng MICE**

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Senior Civil Engineer | Projects Lead | Projects Manager

PROFESSIONAL SUMMARY

I am a **Chartered Civil Engineer** and a member of the **Institution of Civil Engineers** in the UK with over **16 years** of **Project Management** total experience in Civil Engineering projects and major Infrastructure projects in the UK.

I held senior roles in mega international construction organisations where I led various sizes of workforce teams and staff members and delivered highly complex engineering projects from design to completion.

I possess proven and exceptional records of expertise in **Project Management** where I successfully delivered various sizes of construction projects for major Public and Private Clients such as: **Network Rail, Local Councils/Homes and Communities Agency, Cross Rail, Highway England, Welsh Water & HS2.**

Manage day-to-day operational aspects of projects and project scope by effectively applying methodologies that enforce project standards and by minimising exposure and risks on projects. Create and execute project work plans and revise as appropriate to meet changing needs and requirements, including the identification of needed resources and assignment to appropriate personnel.

Experience includes the areas of:

- **Project Management** - Proven progression of project management promotions and responsibilities as a result of an excellent performance track record in planning, scheduling, coordinating, and managing activities for of construction projects with budgets as small as £50k and as large as £7M.
- **Project Administration** - Provide project estimates and surveys, ensure project compliance and completion; conduct quality control inspections in projects; review workloads and set priorities to meet required project schedules and objectives.
- **Project Analysis** - Perform cost comparison analysis of subcontractors vs. self-performance to maintain cost controls; review material/subcontractor invoices for approval; reorganise work schedules and flow to reduce costs and improve efficiency; analyse and ensure construction ability and methodology throughout all phases of the project road map.

- **Project Teamwork** - Effectively supervise, train, and motivate staff, scheduling company employees with contractors and subcontractors; build cooperative teams, staying involved with all staff members to develop and instil a genuine team spirit; mediate conflicts and delegate jobs and authority in accordance with employees' skills and abilities.
- **Project Coordination** - Maintain extensive knowledge of building codes, specifications, and regulations in the UK ;simultaneously manage multiple projects and frequently finish ahead of schedule as a result of effective staff development and motivation and workload planning; demonstrate exceptional abilities in the following key areas: Civil Engineering | Budgets & Forecasting | Field & Site Supervision | Quality Control | Estimating & Surveys Layout & Design | Planning & Coordination | Subcontractor Supervision | Project Management | Project Proposals Client Presentations | Cost Controls | Contract Negotiations | Material Procurement | Policy & Procedures Multiple Location Management | Employee Supervision & Training | Meeting Facilitation | Strategic Planning Goal Setting | Safety Inspections |

PROJECTS' ACHIEVEMENTS (HIGHLIGHTS)

- I successfully led the **Engineering, Operational & Commercial** packages of the HS2 – C1, C2/3 sections of the Ground Pre & Post treatment works across all the shafts, Bridges and Civil Structures in the project. I have successfully completed all the Ground Improvement works with highly commended technical and quality standards.
- I successfully led the **Engineering, Operational & Commercial** packages of the HS2 – C1, C2/3 sections of the Ground Pre & Post treatment works across all the shafts, Bridges and Civil Structures in the project. I have successfully completed all the Ground Improvement works with highly commended technical and quality standards.
- I was responsible for the successful delivery of the **Engineering, Operational & Commercial** packages of the £7M Battersea PS Phase 3A Multi Strands Ground Anchors Project (the project consisted of 422no ground anchors – the largest ground anchor project in Europe 2017/2018).
- I successfully led the **Engineering, Operational & Commercial** packages of the HS2 – C1 section – Colne Valley Viaduct Rotary Piling. The 3.4km long viaduct is a multi-span structure carrying the HS2 over the water features of the Colne Valley Regional Park and the Grand Union Canal in Hillingdon, west London.
- I successfully led the **Commercial & Engineering** packages of The Chantry Lane Chalk Mine Remediation project which was a significant ground engineering scheme undertaken by a team comprising Welwyn and Hatfield Borough Council (Client).

SKILLS

Education and Professional Qualifications

- **Chartered Civil Engineer** and a member of the Institution of Civil Engineers (**CEng MICE**).
- **MSc in Civil Engineering & Construction Management** - Heriot Watt University, UK 2010.
- **BSc** in Construction Engineering - Heriot Watt University, UK 2008.

Other Certifications

- Registered with the Engineering Council in the UK as a Chartered Engineer
- Site Management Safety Training Scheme (SMSTS)

Management Expertise and Skills

- Project Management
- **Risk** Management
- Stakeholder and Project Interface Management
- **Commercial** Management and Cost Control
- **Staff** Training & Development
- Registered with the ICE as a **Supervising Civil Engineer (SCE)**

Personal Skills

- Capable of working independently
- Ability to rapidly learn new concepts
- Capable of communicating technical concepts clearly and concisely in **written** and **verbal** forms
- Possess highly efficient and systematic approaches to meet deadlines and target dates.

Communication skills & Technical Abilities

IT Skills

- Proficient with all MS Office packages
- Working knowledge in various Ground Engineering design Software

Language(s)

- Bi-lingual with fluency in both **Arabic & English**.

WORK HISTORY

Senior Engineer (Projects Lead)
Keller – United Kingdom

05/2024 to Current

Major Projects:

HS2 – C1 & C2/3 sections – Low Permeability Wall (Slurry Wall) - United Kingdom

Role: Senior Civil Engineer

Principal Contractor: ALIGN JV for HS2

Project Value: £5M

The North Portal of the Wendover Green Tunnel opens into a cutting [Wendover North Cutting]. The designer had concerns that the excavation of the cutting will significantly alter the hydraulic conditions of the area. A Low Permeability Wall had therefore been specified offering a non-structural low permeability barrier to control groundwater ensuring that the cutting remains dry.

The Wendover North Cutting Low Permeability Wall was 1.515km long.

Given the depth of the excavation, it was not practical to construct using a traditional long reach excavator. Instead, a crane mounted excavation grab will be used.

A total of

- Number of panels make up the slurry wall: 627
- Theoretical Excavation Volume: 42,492.705m³

In principle the Low Permeability Wall is to extend 1m into Gault Clay to reduce water flow.

I was responsible for the overall engineering packages of the Slurry Wall construction including:

- Slurry mix properties
- Panels excavation records
- Slurry batching
- Slurry sampling & testing

Major Projects:

HS2 – C1 & C2/3 sections – Ground Pre & Post Treatment Works - United Kingdom

Role: Senior Civil Engineer

Principal Contractor: ALIGN JV for HS2

Project Value: £3M

1. HS2 - Construction of Pressure Relief Drains – Turweston Embankment:

The works included the installation of **Pressure Relief Sand Drains (PRD's)** to provide suitable groundwater dissipation drainage as part of an embankment settlement control process beneath the Turweston Embankment.

PRDs Scope

- 3579no
- 133mm diam auger with 178mm dia. temporary casing
- 9 m to 17.5m (from PPL)

2. HS2 - Amersham Shaft Surface Grouting:

The works constituted of the post treatment of the ground through the injection of cementitious fluid to achieve the designated design permeability before TBM break through and for upcoming shaft excavation. The post treatment works aimed to reduce the permeability to specified requirements ($<1 \times 10^{-6}$ m/s) & ($<5 \times 10^{-7}$ m/s). The grout blocks consisted of

- 300 nos. with 150 no. higher volume/pressure boreholes and 150no medium volume/pressure boreholes.
- 250 nos. with 150 nos. higher volume/pressure and 100no medium volume/pressure boreholes.
- 200 nos. with 100 nos. higher volume/pressure and 100no medium volume/pressure boreholes.

3. HS2 - LMS Shaft Surface Grouting:

The works aimed at the creation of grout plug on the bottom of the formed diaphragm is required to control ingress of water following the D-wall shaft excavation. Due to the drilling and grouting methods the grout plug must be fully formed before the shaft is excavated. Grout plug formation at LMI will be partially undertaken before the D-wall is installed and full completion will be carried out after the D-wall is installed.

Plug treatment Scope

Amersham grout plug scope consisted of:

- 110no boreholes
- Inner boreholes stage length 3m
- Outer boreholes close to the shaft wall stage length 4m

Little Missenden grout plug scope consists of:

- 110no boreholes

- Inner boreholes stage length 3m
- Outer boreholes close to the shaft wall stage length 4m
- LMI grout plug will be partially formed before the D-wall is constructed (inner boreholes)

4. HS2 - Wendover Dean Viaduct – Ground Pre-treatment works:

Pre-treatment works is designed to significantly reduce the volume of bentonite losses that is anticipated during the remainder of piling, based on the recorded losses at Wendover Dean Viaduct to date. Injection termination through surfacing, high pressure or low flow are equally successful indications that ground has been effectively treated for pile construction.

5. HS2 – TLE2 Bridge– Ground Pre-treatment works:

Pre-treatment works is designed to significantly reduce the volume of bentonite losses that is anticipated during the remainder of piling, based on the recorded losses at Wendover Dean Viaduct to date. Injection termination through surfacing, high pressure or low flow are equally successful indications that ground has been effectively treated for pile construction.

6. HS2 - Small Dean Viaduct – Ground Pre-Treatment works:

Pre-treatment works is designed to significantly reduce the volume of bentonite losses that is anticipated during the remainder of piling, based on the recorded losses at Wendover Dean Viaduct to date. Injection termination through surfacing, high pressure or low flow are equally successful indications that ground has been effectively treated for pile construction.

I was responsible for the overall management of the installation works including:

- Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.
- Coordination of all design packages.

HS2 - Euston Approaches – PVE Wall Ground Anchors - United Kingdom

Role: Senior Civil Engineer

Principal Contractor: Skanska Costain Strabag (SCS JV) for HS2.

Project Value: £7M

The works constituted the installation of 525no single GEWI bar ground anchors with in-situ constructed DCP pipes. The works also involved the coring and UXO probing of the anchor positions on the PVE brick wall. The works also included the installation of 100no waling beams.

I was responsible for the overall management of the installation works including:

- Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.
- Management of all commercial and contractual aspects in the projects.
- Coordination of all design packages.
- Coordination of all site works with the Principal Contractor and trade contractors.

Major Projects:

Battersea Power Station Phase 3B – United Kingdom

Role: Senior Civil Engineer

Principal Contractor: Sir Robert McAlpine for Battersea PS Development Company

Project Value: £2.9M

Large and complex project in central London incorporated the installation of:

- 100nr large diameter reinforced concrete piles (Wet & Dry from 900 to 1800mm dia.)
- 42nr Plunge Columns
- 25no 600 dia. reinforced concrete piles (restricted access mini-piles)
- 350 linear metres of secant-pile wall
- I was responsible for the overall management of the installation works including:
- Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.
- Management of all commercial and contractual aspects in the projects.
- Coordination of all design packages.
- Coordination of all site works with the Principal Contractor and trade contractors.

Battersea Power Station Phase 3A – United Kingdom

Role: Senior Engineer

Principal Contractor: Sir Robert McAlpine for Battersea PS Development Company

Project Value: £1M

Large and complex project in the central London incorporated the removal of 422nr ground anchors and the installation of 22nr 900 dia. reinforced concrete LDP piles constructed in extremely hard access conditions.

I was responsible for the overall management of the installation works including:

- Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.
- Management of all commercial and contractual aspects in the projects.
- Coordination of all design packages.
- Coordination of all site works with the Principal Contractor and trade contractors. Management of a large team of project engineers and supervisors

Battersea Power Station Phase 3A – United Kingdom**Role: Senior Civil Engineer****Principal Contractor: Sir Robert McAlpine for Battersea PS Development Company****Project Value: £2.8M**

Large and complex project in the central London incorporated 228nr reinforced concrete LDP & Mini Piles

- I was responsible for the overall management of the installation works including:
- Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.
- Management of all commercial and contractual aspects in the projects.
- Coordination of all design packages.
- Coordination of all site works with the Principal Contractor and trade contractors.
- Management of a large team of project engineers and supervisors.

Battersea Power Station Phase 3A – United Kingdom**Role: Senior Civil Engineer****Principal Contractor: Sir Robert McAlpine for Battersea PS Development Company****Project Value: £7M**

Large and complex project in the centre of London incorporated 422nr multiple strand ground anchors installed in both secant and sheet pile wall sections.

As the project manager, I was responsible for the overall management of the installation works including:

- Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.
- Management of all commercial and contractual aspects in the projects.
- Management and delivery of client's requirements
- Coordination of all design packages.
- Coordination of all site works with the Principal Contractor and trade contractors.

Project Manager
JRL Civil Engineering – United Kingdom

08/2016 to 05/2017

Major Projects:**London, UK Park Crescent – United Kingdom Role: Project Manager****Principal Contractor: J. Reddington for PCW Property Holding (Lease B) Ltd****Value: £2M**

Large project in the city of London which incorporated 7,000 linear metres of secant-pile wall.

As a PM, I was responsible for the overall management of the installation works of reinforced concrete secant piles using CFA drilling system. I produced Project Management Plans (PMPs) for the project and established Safe Systems of Works,

Quality Plans and Works Programmes. My responsibilities in the project also included the followings:

Management of all safety systems of works, quality control and assurance, programme, logistics and sequence.

- Management of all commercial and contractual aspects in the projects.
- Management and delivery of client's requirements
- Management and coordination of all pile design packages
- Coordination of all site works with the Principal Contractor and trade contractors.
- Management of a large team of project engineers and supervisors.

Merchant Square - United Kingdom

Role: Project Manager

Principal Contractor: J. Reddington for European Land Project

Value: £1M

Large project in the city of London which incorporated 120nr LDP bearing piles and 5700Lm of secant-pile wall.

As Project Manager, I was responsible for the overall management of the installation works of piles using both CFA and rotary drilling systems. I produced Project Management Plans (PMPs) for the project and established Safe Systems of Works, Quality Plans and Works Programmes. My responsibilities in the project also included the followings:

- Management of the safety systems of works, programme, logistics and sequence.
- Management of all commercial and contractual aspects in the projects.
- Management and delivery of client's requirements
- Management and coordination of all pile design packages.
- Coordination of all site works with the Principal Contractor and trade contractors.
- Management of a large team of project engineers and supervisors.

Project Lead
Bam Nuttall Ltd – United Kingdom

12/2011 to 07/2016

Major Projects:

Chantry Lane Chalk Mine Remediation - United Kingdom

Role: Project Lead

Principal Contractor: Hyder Consulting (UK) Ltd (currently Arcadis) for Welwyn Hatfield Borough Council

Project Value: £5M

The project incorporated 6nr holes for bulk infill, 432nr holes for vertical compaction grouting, 106nr Grout holes for inclined compaction grouting - I was responsible for the overall management of the drilling and compaction grouting works designed to treat collapsed mine- workings and small isolated voids in the residential area in Hatfield, Hertfordshire. The project has received the 2015 Fleming Award organised by the British CivilAssociation.

Cross Rail C300/C410 Compensation Grouting - United Kingdom

Role: Project Lead

Principal Contractor: BAM, Kier, Ferrovial Joint Venture (BFK JV) Project

Value: £44M

Largest project in Europe at the time where I was responsible for designing and implementing compensation grout injection episodes to compensate for ground settlement resulting from the tunnelling excavation works. The project has been one of the finalists for the 2015 Fleming Award organised by the British CivilAssociation.

Project Management Private Tutor

11/2010 to 11/2011

Self-employed – Edinburgh - United Kingdom

As a Project Management private tutor, I taught various project management topics including:

- Project Life Cycle and Organization
- Project Management Processes
- Project Integration Management
- Project Scope Management
- Project Time Management
- Project Cost Management
- Project Procurement Management
- Project Risk Management

Project Engineer

05/2008 to 02/2009

Bauer Technologies Ltd – United Kingdom

Major Projects:

Severn Power CCGT Project

Role: Project Engineer

Principal Contractor: SIEMENS Power Generation for Welsh Power/Severn Power

Value: £12.5M

The project incorporated the installation of 439nr (620mm diameter bored piles) & 426nr (880mm diameter reinforced bored piles). I was responsible for supervising the installation works of all bearing piles in the project on sites. I was also responsible for supervising, monitoring and reporting all safety and QA/QC procedures of the piling works on sites.

My responsibilities in the project also included the followings:

- Production of all site records
- Production of all material & plant take-off records
- Monitoring of production on site
- Reviewing and implementing construction drawings and project specifications

EDUCATION

Heriot Watt University - United Kingdom [September 2009 – October 2010]

Master of Science in Civil Engineering and Construction Management (Grade: 64%)

Major topics covered:

Foundation Engineering, Environmental Geotechnics, Sustainability in Civil Engineering, Value & Risk Management, Project Management Practice and Theory, Project Management Strategic issues and Construction Financial Management

Heriot Watt University - United Kingdom [September 2005 – May 2008] - BSc (HONS) Second Class in Construction Engineering

Major topics covered in BSc: Construction Technology, Energy Technology, Cost Management, Project Planning & Control, Contracts and Procurement and Safety Management.

REFERENCES

Available upon request.