

Hugh T. Corrigan, BEng, MScEng, CEng

Director, Civil, Structural, and Project and Programme Management

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Background

Hugh is a chartered civil and structural engineer and a chartered project manager. He is also a qualified adjudicator.

He has over 35 years of experience in civil, structural, and multidisciplinary design and construction delivery of major infrastructure and building projects, both in the UK and internationally. His experience has been gained through working directly on client-side and through working with contractors on many design-build, alliancing, BOT, EPC, and PFI projects where he has undertaken senior project delivery leadership roles.

Hugh has wide-ranging technical expertise in all aspects of civil and structural engineering relating to infrastructure and building projects including design of major concrete and steelwork structures, which expertise is complemented by his specialist skills in geotechnical, foundation, and water engineering.

Hugh also has significant experience in project and programme management of major construction projects and programmes of capital works as well as in contract administration and acting as Engineer to the contract.

Hugh has been responsible for leading the design of numerous unique and complex infrastructure and building projects including residential, commercial, industrial, and other utility buildings. He has extensive experience on development projects on brownfield and contaminated land.

Hugh has extensive experience in the main construction industry forms of agreement including NEC, IChemE, ICE, JCT, FIDIC, and GC/Wks.

He now specialises in providing strategic project advice, independent engineering and construction expert witness, and technical and construction assurance advice to clients on a wide range of critical technical and project delivery issues. Hugh has carried out a significant number of expert appointments on infrastructure and building project disputes on matters relating to project, construction, and contract management as well as design and workmanhip. He has provided written and oral evidence in litigation, mediation, adjudication, arbitration, land tribunal, and public enquiry.

Education and Certifications

- **BEng (Hons) Civil Engineering**
- **MScEng Civil Engineering (Distinction)**

Professional Memberships

- **Chartered Engineer Engineering Council** (CEng)
- **Fellow of the Institution of Civil Engineers** (FICE)
- **Fellow of the Chartered Institute of Arbitrators** (FCIArb)
- **Full Member of Expert Witness Institute** (MEWI)
- **Member of Adjudication Society**
- **Member of the Society of Construction Law**
- **Member of the Association of Project Management** (MAPM)
- **Chartered Project Manager** (ChPP)
- **Fellow Chartered Institute of Water and Environmental Management** (FCIWEM)

Geographies

- **Europe**
- **Africa**
- **Middle East**
- **India**
- **Far East and Australia**

Sectors

- **Commerical**
- **Residential**
- **Industrial**
- **Energy**
- **Process**
- **Defence**
- **Transportation**
- **Aviation**
- **Industrial and Commercial**
- **Water and Environment, Marine**

Expert Witness and Advisory Experience

Hugh has been appointed on many infrastructure and building contract disputes related to management, design and workmanship. The following is a representative selection of his appointments.

Multi-Storey Residential Block Structural Defects – St Petersburg, Russia
Appointed to provide Expert Opinion [Litigation] relating to damage at a multistorey reinforced concrete residential complex caused by piling and temporary works. Provided advice on structural and geotechnical matters including CFA piling relevant to causation and remedial works.

Commercial Office Basement Concrete Water Ingress Design and Workmanship Defects – UK
Appointed as Expert Winess [Litigation] in relation to water ingress, waterproofing, and defective drainage affecting a major basement structure serving a large commercial and residental development.

Food Production Buildings Civil and Structural Defects, Ground Settlement – UK
Appointed as Expert Witness (Arbitration) concerning latent defects at five new food production buildings including a major commercial bakery. Scope of advice covered civil, structural, roads, drainage, and foundation matters as relevant to causation and remedial works.

National Newspaper Printing Plant Civil and Structural Defects, Ground Settlement – UK
Appointed as Expert Witness [Litigation] concerning latent civil and structural defects at a major newspaper printing facility affected by ground settlement. Scope of advice extended to civil, structural, roads, drainage, utilities, piling, and ground settlement matters relevant to causation and remedial works.

Cultural and Educational Buildings Civil and Structural Defects – UK
Appointed as Expert Witness (Adjudication) concerning latent defects at a new educational centre affected by ground settlement due to underlying peat layers. Provided advice on the civil, structural, and geotechnical aspects of the designer's performance.

Student Accommodation Building Defective Foundations – UK
Appointed as Expert Witness [Litigation] in relation to building foundation defects resulting in demolition of a six-storey reinforced concrete civil and structural matters related to the student accommodation building. Provided written and oral evidence relating to civil and foundation design matters relevant to causation and remedial works.

Paper Mill Production Plant Civil and Structural Defects – UK
Appointed as Expert Witness [Litigation] relating to a production plant undertaking large-scale paper recycling. Role extended to civil and structural latent defect matters relevant to causation and remedial works.

Logistics Buildings Steel Distribution Centre Structural Steelwork Defects – UK
Appointed as Expert Witness [Litigation] to determine cause of damage and required remedial works to large steel-framed warehouse and distribution centre.

Commercial Building Basement Structural Defects, Water Ingress – UK
Appointed to provide Expert Opinion [Litigation] on the cause of structural basement damage and water ingress at a multi-storey office complex. Provided structural and geotechnical advice on causation and remedial works.

Housing and Commercial Multistorey Development Piling Impacts – UK
Appointed as Expert Witness [Arbitration] in relation to a four-storey, 26-unit, residential and commercial development. Role extended to providing advice on civil, structural, and piling matters.

Gas Turbine Plant Civil and Structural Defects – Algeria
Appointed as Expert Witness (Arbitration) in relation to a 368,152MW energy plant where a construction dispute had resulted in the suspension of the works. Role extended to the civil, structural, and pipe assessment of the gas receiving station, the main power island, the tank farms, and the balance of plant building facilities.

Biomass Plant Civil and Structural Defects – UK
Appointed as Expert Witness [Arbitration] in relation to a $10MW_e$ wood-fuelled biomass plant built on a brownfield site. Advice extended to civil, structural, and geotechnical advice on matters relating to building concrete and steelwork structures, roads, earthworks, drainage, and other external works matters relevant to causation and remedial works.

Industrial Development Employers Agent Performance – UK.
Appointed as Expert Witness [Litigations] in relation to the performance of the employer's contract administrator and whether it carried out its role with due skill care and attention.

Intensive Care Facilities Construction Managers Performance – UK
Appointed as Expert Witness [Adjudication] in relation to a new hospital facility housing general and intensive care wards. Role extended to construction management performance matters.

Industrial Storage Building Defective Workmanship – UK
Appointed as Expert Witness [Litigation] to assess disputed matters related to defective workmanship on 11 new steel-framed industrial premises.

Retail Outlet Building Defects – UK
Appointed to provide expert advice relating to major building defects.

Radioactive Waste Plant Design and Workmanship Defects – Australia
Appointed as Expert Witness [Arbitration] in relation to defective underground nuclear waste system. Role was to determine the likely causes of structural or other defects and assess the required remedial works.

Desalination Plant Process Defects – KSA
Appointed as Expert Witness to carry out a performance assessment of the existing treatment processes including DAF plant, settlement, dual media filters, RO membrane, service reservoir, and infrastructure to determine the cause of extensive RO membrane damage.

Post-Panamax Vessel Dock Development Design – UK
Appointed to provide Expert Witness [Arbitration] technical advice relating to the design of a major new Quay Wall and Ship-to-Shore crane foundations.

Mass Concrete Dam Design and Workmanship Defects – Cameroon
Appointed as Expert Witness to determine the cause and significance of extensive concrete cracking and leakage.

Tidal Barrage Due Diligence – Turkey
Appointed as the civil and structural Technical Expert on behalf of the lending bank to provide due diligence assessment of a proposed tidal barrage scheme. Role covered all civil, structural, and geotechnical aspects of the project.

Marine Transfer Pumping Facilities Design and Workmanship Defects, Delay and Disruption – UK
Appointed on behalf of the Employer [Litigation] concerning six nr disputed claims relating to major new marine work. Provided expert advice relating to technical matters as well as claims and dispute advice.

Marina Works Design and Workmanship Defects, Delay and Disruption – UK
Appointed on behalf of the employer concerning 14 nr disputed contractor claims related to a major new marina facility. Provided expert advice relating to technical matters as well as claims and disputes advice, independent programming, and delay evaluations.

Bridge Structure Failure Design and Workmanship Defects – Bahrain
Appointed as Expert Witness [Arbitration] in relation to a major bridge structural stability matter. Provided advice on civil and structural matters.

Polysilicon Plant Delay and Disruption – Qatar
Provided day-to-day independent programming and engineering advice [Arbitration] relating to major polysilicon production facility dispute.

Gas Turbine Plant Construction Readiness Electromechanical Works – Algeria
Appointed as Expert Witness [Arbitration] to undertake a construction readiness assessment relating to all aspects of electromechanical programme of works.

Railway Infrastructure Bridge and Track Design – India
Appointed as Expert Witness [Arbitration] in relation to bridge and track design issues. Provided expert advice on bridge and track design issues forming part of a new cross-country freight rail infrastructure.

Water Company Prosecutions Process Plant – UK
Appointed as Expert Witness [Litigation] in relation to various prosections brought by the Environment Agency against a water and sewerage provider in relation to sewerage and sewage treatment pollution discharges at multiple sites. Provided technical, water industry practice advice including advice on the regulatory framework, permits, and consents.

Concrete Service Reservoir Structural Defects – Ipok, Malaysia
Appointed to provide Expert Opinion [Litigation] concerning structural cracking at a major post-tensioned concrete reservoir. Provided advice on structural matters related to causation and remedial works.

Over-Rail Bridge Unforeseen Ground Conditions – UK
Appointed as Expert Witness [Adjudication] in relation to unforeseen ground conditions affecting abutment and bridge foundation pile design.

Airport Extension Marine Piling – UK
Appointed as Expert Witness [Adjudication] concerning a major airport runway and taxiway extension. Provided advice relating to the marine piling aspects of the works.

Commercial Hotel Delay and Disruption – UK
Appointed as Expert Witness [Adjudication] to provide advice and technical, delay and quantum matters relating to an eight-storey hotel refurbishment and extension project.

Commercial Hotel Flood-Related Defects – UK
Appointed as Expert Witness [Litigation] concerning building flood damage at a major hotel. Provided advice on civil and structural matters relevant to causation and remedial works.

River Flood Protection Works Failure – UK
Appointed as Expert Witness [Litigation] in relation to defective fluvial flood protection defences. Provided civil, structural and geotechnical advice.

Planning Appeal Commercial and Residential Development – UK
Appointed to provide Expert Proof of Evidence in relation to infrastructure provisions and other contentious measures for a proposed major complex residential and commercial development.

Flood Defence Scheme Contract Advisory – UK
Appointed by the main contractor to provide expert advice on technical matters and contractual claims, relating to major river and estuarine flood defence walls comprising over 10km of steel piled walls.

Commercial Development Unforeseen Ground Conditions – UK
Appointed as Expert Witness [Arbitration] relating to unforeseen ground conditions and undiscovered public utilities at a major commercial development impacting design and progress of construction. Provided advice on the designer's and contractor's pre-construction and construction-relevant performance and methodologies.

Incinerator Plant (Petrochemical Works) Delay and Disruption – KSA
Provided day-to-day independent programming advice [Arbitration] relating to major thermal process plant, waste treatment, and solid waste handling facilities serving a new petrochemical production facility.

Sewage Treatment Plant Design and Operational Defects – UK
Appointed as Expert Witness [Litigation] in relation to a defective sewage treatment plant subject to a cease to operate environmental order. Role was to determine the cause of plant performance issues and assess the required remedial works.

Water Treatment Plant Upgrade Civil and Structural Design and Workmanship Defects – UK
Appointed as Expert Witness [Adjudication] to assess various process tank and pipework defects relating to a 150 Megalitres per day water plant upgrade comprising primary settlement, rapid gravity filtration, service reservoir, and distribution pumping station.

Wastewater Lagoon Wood Chip Factory Civil and Structural Defects – UK
Appointed as Expert Witness [Litigation] concerning latent defects at an industrial process treatment plant. Provided written and oral evidence at Construction and Technology Court on matters relating to defects in the main process ponds.

Motorway Defective Workmanship – UK
Appointed as Expert Witness [Adjudication] relating to a new PFI motorway. Role extended to civil and geotechnical construction defect matters.

Highway [S278] Works Defective Design – UK
Appointed as Expert Witness [Litigation] in relation to S278 design defects relating to a new residential land development.

Mixed-Use Development Civil and Structural Design and Workmanship Defects – UK
Appointed as Expert Witness [Adjudication] in relation to alleged pavement (S38 and S278 roads), drainage and building foundation design, and construction defects of serving a 600-unit mixed-use development.

New Estuary Bridge Crossing Civil and Structural Defects – UK
Appointed as Expert Witness [Arbitration] concerning landside works related to a new bridge crossing constructed as part of a PFI initiative. Role was to consider design defects in the large balancing ponds provided to control flooding and pollution.

Water Treatment Plant Structural Defects – Egypt
Appointed as Expert Witness [Litigation] concerning latent structural defects at various process structures and ancillary buildings. Provided advice on testing and on the cause and remedial requirements.

Residential Development Flood Impact – UK
Appointed as Expert Witness [Litigation] concerning damage to residential property caused by flooding of public drainage service. Provided written and oral evidence at court.

Compulsory Land Purchase Infrastructure Impacts – UK
Appointed as Expert Witness [Land Tribunal] concerning impacts of compulsory land purchase on commercial licencing, hotel, and restaurant premises. Provided advice on civil and infrastructure matters and on the performance of replacement process treatment facility.

Infrastructure Concession Due Diligence – UK
Appointed as the civil and structural Technical Expert on behalf of the lending bank to provide due diligence assessment of a proposed wastewater concession. Role covered all civil, structural, and geotechnical aspects of the project.

Sewerage Flooding Related Defects – UK
Appointed as Expert Witness [Litigation] to provide advice on the causes of sewerage flooding, required remedial works, and the performance of the sewerage undertaker.

Statutory Sewerage Provider Flooding – UK
Appointed as Expert Witness [Litigation] in relation to the performance of a water and sewerage provider and damage caused to private property. Role extended to providing advice on damage and normal approaches to the discharge of statutory obligations and operation and maintenance functions.

Process Plant Fire Damage – UK
Appointed as Expert Witness [Litigation] to assess the extent of valid additional remedial works resulting from a major chemical fire in light of other planned regulatory-driven improvements. A plant comprising groundwater abstraction, filtration, water softening, and gas chlorination.

Water Utilities Contractor and Provider Performance – UK
Appointed as Expert Witness [Adjudication] to assess the reasonableness of the late discovery of water mains impacting the main construction programme and whether the contractor and utility provider failed in the discharge of their obligations.

Commercial Development Flood Related Damage – UK
Appointed to provide Expert Opinion [Litigation] relating to building damage resulting from flooding. Provided advice on causation and remedial requirements.

Housing Development Gas Utility Connections – UK
Appointed as Expert Witness [Adjudication] to assess the adequacy of the contractor's procurement activities of gas main services and whether the gas transporter carried out its obligations in a reasonable manner.

Business Park Development Design and Workmanship Defects – UK
Appointed as Expert Witness [Litigation] relating to a new university business park development. Advice extended to the performance of the multi-utility provider and utility providers in discharging obligations relating to design, procurement, and construction.

Airport Expansion Works Delay and Disruption – UK
Provided day-to-day expert advice on behalf of the Airport Authority on various programme delay, variation, and claims assessments, relating to runway and aircraft aprons works.

Hotel Development Delay and Disruption – UK
Provided day-to-day independent programming advice [Arbitration] relating to COVID disruption relating to a 42-storey, mixed-use residential and 5-star hotel complex.

Project Experience

Hugh has a wide range of design experience relating to infrastructure and buildings including various power, energy and nuclear plants. The following is a representative sample of his project experience.

Commercial and Industrial Buildings

Design Manager Albion House Redevelopment, London – UK
Designer and Contract Administrator for design of a new major post-tensioned concrete and structural steelwork multi-storey commercial building in City of London (GBP£20 million capex).

Design Manager, World Cargo Centre – UK
Design Manager responsible for detailed structural design of concrete and structural steelwork structures on BA's flagship automated freight handling centre processing over 800,000 tonnes of cargo/year.

Design Manager, Multi-Storey Carpark – UK
Design Manager for new multi-storey carpark complex including foundations, reinforced concrete and steel superstructures, and composite construction.

Design Manager, Airport Buildings – UK
Design lead for design of 30 operations, office, administrative, and other functional buildings.

Design Manager, Multiple Power Plant Buildings – UK
Design lead for 44 operations, office, administrative, and other functional buildings.

Design Manager, North Wolwich and Beckton Administration Buildings – UK
Design Manager responsible for design of multistorey major concrete and steel frame buildings with basement structures and piled foundations.

Regeneration and Land Development

Design Director, Strategic Land Development Programme, St Modwen Development – UK
Design Director responsible for completion of the detail designs for a large portfolio of major commercial and residential strategic land developments across the UK.

Design Director, Millbrook Park Redevelopment – UK
Design Director responsible for design of all new infrastructure to serve a new 2250 housing and mixed-use 40-hectare development including all new streets and strategic access routes, utilities and drainage networks, land reclamation, public connections, earthworks, and materials specifications.

Design Manager, Battersea Power Station Redevelopment – UK
Design Manager responsible for preparation of DBO infrastructure designs to serve a new £1b development site.

Design Manager, Colchester PFI – UK
Design Manager for infrastructure designs for (GBP£1 billion) PFI redevelopment of a 120ha MOD base.

Energy

Design Director, Wylfa Boiling Water Reactor 2.9GW Nuclear Power Plant Anglesea North Wales – UK
Design Director responsible for the scheme design and specification for 140 new assets including process and storage units, buildings, utility systems, infrastructure and external work elements including a significant number of Nuclear Safety Classified Assets. GBP£1.5 billion capex value National Strategic Project.

Design Director: Hinkley Point C (HPC) 3.2GW European Pressurised Reactor – UK
Design Director responsible for the detail design of a range of infrastructure projects (GBP£350 million capex) including highways, earthworks/foundations, pipelines, storage tanks, stormwater, various structures, as well as site technical support and Development Consent Order compliance. GBP£19 billion capex National Strategic Project.

Design Director, Millbrook Park Energy Centre – UK
Design director responsible for detailed civil, structural, architectural design of a complex CHP district energy centre on behalf of EON.

Design Manager, Barka Combined Power and Desalination Plant – UK
Design manager responsible for key aspects of expansion phase of existing plant including sea intake and outfall works, and landside process and external works.

Design Manager, Las Laffan Combined Power and Desalination Plant – UK
Design manager responsible for key aspects of the expansion phase of existing plant including sea intake and outfall works, and landside process and external works.

Design Manager, Sohar Combined Power and Desalination and Power Plant – UK
Design manager responsible for key aspects of the expansion phase of the existing plant including sea intake and outfall works, and landside process and external works.

Dychow Hydroelectric Scheme – Poland
Design manager responsible for existing plant condition assessment and specification for upgrade and remedial works to impounding dam and forebay buildings serving a 2200MW hydropower development.

Highways, Bridges, and Transportation

Design Director, Olympic Park Infrastructure, London 2012 – UK
Design Manager responsible for design of 10 new road and footbridges, over 12km of highway; and major new junction configurations.

Design Director, Branston Bridge and Spine Road and Bridge – UK
Design Director responsible for detailed civil, structural, piled foundation design and securing technical approvals from Staffordshire County Council for a new spine road and bridge crossing. Capital value GBP£9 million.

Design Director, Bridge Assessments – UK
Design Director responsible for LR bridge assessment at Waterden Road, Pudding Mill Lane, and assessment and structural upgrades of 40 critical operational bridges.

Design Director, Waterden Road, Stratford – UK
Design Director responsible for the detailed design of new strategic highways to Queen Elizabeth Park. Responsible for the development of Legacy Highway and Public Way Design Guide on behalf of the four local boroughs.

Design Director, Wantage District Distributor Road – UK
Design Director responsible for detail design and securing technical approvals from Oxfordshire County Council for new major bypass road, access junctions, and secondary roads.

Design Manager, King Abdulaziz (Jeddah) Airport Expansion – UK
Design Manager responsible for the detailed infrastructure design of sitewide infrastructure to serve the expansion of this 15km2 airport complex from 13m to 80m passengers/year including new airport city, one of the largest new terminals in the world (680,000m2), rail and transport centre. GBP£5 billion major capacity upgrade on behalf of GACA.

Geotechnical and Tunnelling

Design Manager, No. 20/21 Billiter Street, London – UK
Design lead for underpinning foundation works and deep basement diaphragm walls.

Design Manager, Queen Elizabeth Park Soil and Reinforced Earth Structures – UK
Design lead for 57 nr reinforced earth and anchored retaining wall structures.

Design Manager, Existing Piled Foundations Repurposing, Beckton – UK
Design lead responsible for assessment, including load testing, of potential for repurposing of existing redundant massive foundations and large diameter piles dating back to 1864.

Design Lead, Lee Valley Tunnel – UK
Design Lead responsible for the hydraulic and structural design of 7.5km wedge-block lining tunnel and ancillary structures.

Design Manager and Resident Engineer, Royal Docks Drainage Tunnels and Shafts – UK
Design Manager and Resident Engineer for new bored tunnel infrastructure to provide new drainage infrastructure to Royal Albert Docks.

Design Manager, North Woolwich Pipe Jack Outfall – UK
Design lead for twin 900mm diameter outfall tunnels.

Project Manager and NEC Contract Administrator Thames Ring Main Strengthening – UK
Project Manager, various tunnel strengthening works.

Rivers and Maritime

Design Manager, Oldstairs Bay Marine Works – UK
Design Lead responsible for the detailed design of new seawall retaining wall defences to prevent ongoing flooding and erosion, and reclamation of depleted beach.

Design Director, Fairhaven Marine Works – UK
Design Director responsible for the design of GBP£22 million capital works to provide new sea wall defences including erosion and flooding protection.

Design Manager Thames Gateway Jetty – UK
Design Manager responsible for the design of new steel jetty structure supporting materials delivery mechanical plant and services.

Design Manager, Beckton Gasworks Jetty – UK
Design Lead for marine concrete jetty appraisal, remedial and strengthening works, and repurposing works.

Design Manager Royal Docks Quay Works – UK
Design Manager responsible for quay wall assessment, strengthening and upgrade works.

Design Manager, River Lea Works – UK
Design Manager responsible for the design of major river retaining walls assessment, remedial works, and new defences.

Design Manager Cork WWTW Long Sea Outfall – UK
Design Mnager for 1600mm, 1km long, sea outfall design.

Water and Environment

Design Director, Louth and Horncastle Flood Control Dams – UK
Design Director new flood control storage schemes controlled by embankment dams are intended to alleviate regular flooding in the market towns of Louth and Horncastle in Lincolnshire. Both sets of dams fall under the Reservoir Act 1975, both being Category C safety classified.

Design Director, Dams, Reservoirs – UK
Design Director responsible for new reservoir designs, upgrades, and remedial works at Freetown, Abberton, Hanningfield, Thanington, Warren Road, Chingford, Bussow, Tambun, Colliford, Baldwins Dam, Cherry Orchard, Clwedog, and the Great Manmade River project.

Design Director, Major Water and Wastewater Networks, Pipelines, Conveyance Systems
DesignDirector for major infrastructure schemes at Hove, Bearsted, Bexhill, Combe Haeven, Oman, Jeddah, Bognor Regis, Hastings, North Woolwich, Ely Ouse to Essex transfer, River Vernwy pump back scheme, Mombasa, Calne, Great Manmade River, and Lee Valley Transfer.

Design Director, Various Water and Wastewater Treatment Plant
Design Director responsible for new process plant and plant upgrade at Calstone, Langham, Cheam, Woolcoombe, Cork, Beckton, Tangmere, Beddington, Mogden, Harrietsham, Bethersham, and Douglas.

Programme Management

Programme Manager, Thames Tideway Tunnel – UK
Programme manager for the delivery of a range of critical advance works packages (GBP£750 million).

Framework Engineering Director, Atkins-Galliford Try JV – UK
Design Director working for an integrated JV delivering GBP£130 million of various civils, buildings and electromechanical capital works.

Framework Engineering Director, Eight20 Alliance – UK
Design Director working for an integrated D&B Delivery JV delivering a £750m capital programme of civil, building, and electromechanical works.

Framework Engineering Director, Environment Agency Capital Delivery (D&B) Programme – UK
Design Director working for an integrated D&B Delivery JV on a 5-year major programme of environmental capital schemes.

Contract Administration/Engineer to the Contract

NEC4 Project Manager, ANL Printing Facility Remedial Works – UK
Contract administration of GBP£20 million remedial works contract.

JCT SBC, Contract Administrator Albion House Redevelopment – UK
Construction phase contract administrator for a major multi-storey commercial development in the City of London.

NEC3 Project Manager, Thames Water Ring Main Strengthening Works – UK
Construction Specialist responsible for contractor tender pre-qualification, tender preparation, tender analysis, and negotiation. Construction phase contract administration as NEC3 PM.

ICheme Engineer to Contract, Langham Process Plants – UK
Responsible for contractor pre-qualification process, development of tender/contract documentation (ICheme Red Book) and then, engineer to the contract for new process plant.

JCT Minor Works, Contract Administrator, Billiter Street – UK
Construction phase contract administrator for multi-storey building demolition works, underpinning works, and temporary support works to adjoining buildings.

NEC3 Project Manager, Thames Tideway Public Realm Works – UK
Construction Specialist responsible for tender pre-qualification, tender preparation, tender negotiation, analysis and then, contract administration as NEC3 PM.

ICheme Contract Administrator, Calstone and Woolcoombe Process Plant – UK
Construction Specialist responsible for contractor pre-qualification process, tendering, tender appraisal and negotiation, and contract documentation (IChemE Red Book). Construction phase engineer to the contract.

ICE (4th, 5th, and 6th) Engineer to Contract – UK
Construction phase Engineer's Representative for various contracts including Royal Docks Drainage, Runfold Flood Alleviation, and North Woolwich Pumping Station.

Professional Experience

- **Rimkus (Formerly Capital Consulting International, CCi)** **2022 – Present**
  - Director
    Expert witness and advisory services.

- **Blackrock Expert Services** **2019 – 2022**
  - Director
    Expert witness and advisory services.

- **WS Atkins** **1992 – 2019**
  - Regional Director
    Infrastructure and buildings.

- **Brown & Root** **1991 – 1992**
  - Senior Engineer
  - Senior Civil and Structural Engineer
    Infrastructure.

- **Halcrow and Partners (Now CH_2MHill)** **1986 – 1991**
  - Senior Engineer
    Infrastructure.

Publications

- London 2012, **"Olympic Park Infrastructure"** 2012