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PRINCIPAL PROFESSIONAL SPECIALISMS

I have 34 years experience in port and marine developments – planning, feasibility, design and construction, for container terminals, cruise facilities, LNG/oil and bulk terminals, fishery harbours, involving quays, jetties, breakwaters, dredging and port infrastructure. I have LCIA, ICC, SIAC, UK Court of Session and Australia expert witness experience regarding marine construction and planning disputes.

Qualifications, training, accreditation

Bachelor of Engineering (Civil), 1986, University College Dublin, Ireland

Past and present positions

October 2018 to present	Mannion Marine Limited, Winchester, UK
June 2009 - September 2018	AECOM (formerly URS & Scott Wilson), Europe Middle East India Asia Ports & Marine Director (based in Basingstoke, UK)
June 1996- May 2009	Halcrow, Maritime Regional Director (based in UK, Hong Kong & USA)
May 1993 - May 1996	Mouchel Plc, Maritime Project Manager, Woking, UK
February 1989- May 1993	Christchurch Borough Council, Engineer, Dorset, UK
August 1987- January 1989	University College London, Coastal Engineering Research Assistant
October 1986- July 1987	Texaco, Engineer, Retail Construction Department, London, UK

Memberships of professional organisations

I am a Chartered Engineer & Member of the Institution of Civil Engineers since 1989 and a Fellow of since 2019 (CEng, FICE).

I became an Associate Member of The Academy of Experts in 2019, a Full Practising Member in October 2020 and a Fellow in July 2022. I am a member of PIANC, on the PIANC UK National Committee and Chairman for the Working Group 224 on “Planning of Fishing Ports”. I am a member of CEDA (the Central Dredging Association).

Training, qualifications and accreditation as an expert witness

I became an Associate Member of The Academy of Experts in 2019, a Full Member in October 2020 and a Fellow in July 2022. I attended The Academy of Experts ‘Expert Foundation Course’ in January 2019, covering aspects of acting as an expert from expert’s duties to conduct and procedure in court, and have attended ‘Mediation’ and ‘Into Court’ training also. I have previously supported experts in report preparation and acted for clients in many construction disputes.

- In March 2020, I submitted an expert report for Adjudication on a construction dispute in the UK involving quay deepening and dredging, also an expert report on the same project for Court of Session purposes in May 2020, second report in August 2020, and mediation in December 2020 which has led to settlement.
- I submitted 2 expert reports for the London Court of International Arbitration in June and December 2020 regarding a Caribbean construction dispute involving a new pier and associated dredging, and was cross examined at the hearing in February 2021.
- I submitted expert reports to the International Chamber of Commerce in July 2020, January 2021 and March 2021 regarding dredging for a bulk terminal port development in the Black Sea, and appeared at the hearing in June 2021.

- I submitted an expert report on a Pacific container terminal in June 2021 and appeared at the hearing under Australian (Resolution Institute) arbitration rules in August 2021.
- I submitted an expert report under SIAC arbitration rules regarding a SE Asian port dispute in December 2021 and was cross examined in April 2022;
- Between December 2021 and February 2022, I provided expert advice regarding an Australian port construction dispute;
- In February 2022, I prepared an expert report for arbitration regarding a European container terminal ;
- In February 2022, I prepared an expert report for adjudication regarding a UK harbour remediation project;
- In April 2022, I prepared an expert report for adjudication regarding caisson design and construction for a UK port;
- In June 2022, I submitted an expert report for a planning inquiry regarding a proposed LNG terminal in Australia and was cross examined in July 2022.

APPENDIX A RELEVANT EXPERIENCE (most recent first)

Australian LNG Terminal Expert Report, for ClaytonUtz (2022)

UK North East Offshore Energy Dock Operator Procurement (2022)

UK Harbour Remediation Expert Witness, for Brodies (2022)

European Container Terminal Expert Witness, for CMR/Taylor& Wessing (2021-2022)

SouthEast Asia Port Expert Witness, for HKA/White & Case (2021-2022)

US Gulf Coast Container Terminal Feasibility Study (2021)

Pacific Container Terminal Expert Witness, for HopgoodGanim (2021)

UK Jetty Advice (3 sites, 2 on Thames and one in Essex)

Black Sea Port Construction Expert Witness, for Enyo Law (2020)

Caribbean Marine Construction Expert Witness, for Malcolm Gordon Law (2020)

UK Marine Construction Expert Witness, for Dentons (2019/2020)

Middle East Bunker Hub Master Plan

Middle East Container Terminal Due Diligence

TMT Container Terminal Planning Study, Myanmar

Colombo North Harbour Feasibility Study, Sri Lanka

Container Terminal Lenders Due Diligence, UAE

Polish FSRU Feasibility Study

Dublin Port Technical Advice : Master Plan, Dredging contract, and Berth 35/Quay Wall Framework

Tema LNG EPC Ghana, Owners Engineer for 2 permanent berths with breakwater & dredging

Portsmouth Cruise Improvements Study, UK

Cruise Concept Study, Confidential location

West Africa Oil Base Due Diligence

Duqm Port Planning Advice, Oman

Wicklow Maritime Strategy Review, Ireland

Container Terminal Planning, Saudi Arabia

Shannon LNG Marine FEED & Tender Documents, Ireland

Tema LNG FEED, Ghana (Gasfin). Project Director, innovative new FSU/FRU berth with 800m breakwater, subsea pipeline & 7km gas pipeline (2017-2018)

Shell LNG Marine Studies. Project Director (2 Latin American countries) new FSRU/FRU/FSU facilities (2017-2018) EPC ITT stage for one project, options study for second project

Belfast Harbour Dredging Strategy, UK (2018)

Yuzhny Grain Terminal Study, Ukraine (2018) Study of proposed new grain development

Tema Port Ghana PMC (APMT/Bollore), 3.5M TEU greenfield container terminal including 1.4km quay, 4km breakwater, reclamation (2016-ongoing)

W Africa Oil Facility Due Diligence (2018). Port development/improvement options, costs, schedule

Jebel Ali Terminal Master Plan 2015-2040, UAE (DPW). Project Director (2015-2016). Led port planning, consultation, options development, port & free trade zoning, forward development plan for next 25 years, including container, grain, liquid and general cargo facilities

Middle East Port Optimisation/Expansion Study (2016) including grain terminal

Durban Dig Out SBM Port Planning, South Africa (2015)

Port of Dover Fruit Cargo Terminal Study, UK (2015)

Tanger Med 2 Yard Due Diligence & Design, Morocco (APMT). Project Director (2015-2017) & port planning

Gosport Oil Fuel Jetty Study, UK (DIO). Project Director, Jetty assessment, refurbishment/replace/upgrade options study & prelim design (2014-2015)

London Gateway Container Terminal, UK. Project Director for design of new DP World 3M TEU terminal (Laing O'Rourke/Dredging Int JV) (2009-2012)

Boubyan SeaPort Design Review & Supervision, Kuwait. Project Director for Phase 1 (1.7km quay & reclamation for new container terminal) (Ministry of Public Works) (2010-2012), including port master plan

Colombo Port Expansion Project, Sri Lanka. Project Director, construction of 6km breakwaters, reclamation, 9 berths for South Harbour container terminal (SLPA/ADB) (2009-2010)

Pengerang Oil Jetties FEED, Malaysia, technical reviewer for 2 phase multiple berths, oil & LNG terminal (2010-2011) including planning per phase

Luanda Oil Supply Base, Angola, Project Director Design & supervision 3km quays (2009-2013)

BP Tangguh LNG Pre-FEED, Indonesia. Project Director, marine Pre-FEED for LNG Jetties, detailed design of Marine Early Works (2011-2012)

Jazan Port Liquid Berth Design, Saudi Arabia. Project Manager detailed design of new pier for MMC

Gladstone LNG Marine Concept Study, Australia. Site selection for 2 berth terminal (Bechtel/ConocoPhillips)

Nigeria Industrial Zone Planning Study. Project Director for site selection, zoning, concepts for new industrial zone/town in Calobar (ExxonMobil) including grain facility

FEED for two new oil berths & associated tank farm at Port Arthur Louisiana USA (Sempra)

Calais FEED LNG Marine Study, Maine, USA (Private)

Calbuco Bulk Dock Oil Conversion Study, Chile (Copec)

El Salvador Refinery Submarine Replacement Pipeline Design (ExxonMobil)

Port Conversion Study Texas USA (HPH) Project Manager, convert existing port to containers

Deer Park Refinery Dock 2 Upgrade, Houston, USA

Weavers Cove LNG Marine Study, USA (Hess/Poten)

Costa Azul LNG Mooring Study, Mexico (Sempra)

Papua New Guinea LNG Layout & Mooring Study (ExxonMobil)

Woodhouse Terminal Access Control/Security Improvements, Port of Houston, USA

Tumaco PLEM & Pozos Colorados SPM/Pipeline Design, Colombia (Ecopetrol)

Cameron LNG Louisiana USA. Marine owner's engineer for EPC stage, new LNG jetty & marine works (Sempra)

Port Arthur LNG Marine FEED USA (Sempra)

Bayport Container & Cruise Terminal Phase 1A Program Management Services, Houston, USA

Director supporting new 3M TEU container terminal development & 2 berth cruise terminal (LAN/PHA)
Rabaska LNG Jetty Study, Canada (Westmar)

Dry bulk jetties, SPM for Greenfield 350,000 barrels/day refinery (Occidental)

Golden Pass LNG Berths EPC, Texas, USA. Project Director. Detailed design of two new LNG jetties (Client: Weeks Marine/CB&I/ExxonMobil)

Port of Brownsville Master Plan, Texas, USA. Master Plan including multiple bulk steel and oil docks

Shannon LNG Marine Terminal Concept Study, Ireland. Project Manager, new LNG terminal jetty

Corito Port Design, Anguilla. 350m quay, breakwater, dredging, port infrastructure for new cruise and general cargo port in Caribbean (Govt)

Marine Terminal Engineering & Maintenance Standards Led global marine oil terminal 'fit for purpose' guidance (ConocoPhillips)

Escravos Topping Plant Wharf, Nigeria. Team Leader, Site selection, concept design of new products berth (Chevron)

ExxonMobil Marine Terminal Support, USA Marine PreFEED Guidance document, concept for US NE jetty, Bonny River Nigeria IPP study, LNG mooring advice Korea

Dover Port Master Plan, UK. Project Manager for 30 year Master Plan, Phases 1 & 2. Traffic forecasts, tariffs, capacity studies, urban planning, development planning for multiple cruise and ferry terminals, plus general cargo berths (Dover Harbour Board)

Port Management & Development Study, Anguilla. Project Manager. Evaluating port needs, forecasts, future management and development for all island marine facilities, for cruise, general cargo and passengers

Damietta NGL/LNG, Egypt. Project Manager for LNG marine FEED (2 berths) and then NGL Jetty EPC stage for BP/Eni/EGC

Sri Lanka ADB Fishery Harbours, Sri Lanka. Project Director for design of four new fishery harbours at Hambantota, Ambalangoda, Kalametiya and Chilaw

Manoel Island Marina Business Plan, Malta. New 350 berth development including superyachts

Port of Tanger Med Port Planning, Morocco (TMSA)

Urea Export Port Study, Egypt (Agrium) Planning stage for proposed urea/methanol facility on Mediterranean

Caspian Crude Oil Shipping Study (Consortium) Options study for oil berths/SPMs in Kazakhstan & Azerbaijan

Various LNG Marine Studies in UK, Iran, Algeria, UAE

Container Port Study Russia. Team Leader for potential port development for major operator

Gassi Touil LNG Marine Study, Algeria. (BP)

Sangatta Safe Berthing Facility Study, Indonesia

St Lucia Coastal Study (Government)

Sohar Petrochemical Berths Design, Oman

Port Alacati Marina Review, Turkey

Port of Tangier New Port, Morocco : RoRo, breakwater

London Gateway Development UK: Modal split

Bandar Abbas/Pars LNG Port Review, Iran BHP Billiton

Glaxo Montrose Foreshore Protection, UK Project Manager

Swanage Bay Beach Management, UK Project Manager

Poole & Christchurch Bays SMP, UK Project Manager

Wemyss Coastal Villages Initiative, UK Project Manager

Montrose Bay Shoreline Management, UK Project Manager

Doha Corniche Seawall, Qatar Project Manager

Colombo South Harbour Study Review, Sri Lanka

Halcrow, Project Manager, Hong Kong

Hebe Haven Marina Design, Hong Kong, Project Manager for marina expansion, breakwater

Tsing Yi Shell LPG Seawall Repair, Hong Kong. Design Leader, Resident Engineer 200m rock armour revetment

Hoping Port Review, Taiwan (CLP), Project Manager, New port 6 berths (cement/coal) & breakwater

Penny's Bay Jetty Reprovisioning Design, Hong Kong

Container Terminal 10/11, Hong Kong. Project Engineer for major greenfield development

Port of Holyhead Inner Harbour Dredging Supervision, UK

Doha Corniche Seawall Design, Qatar (Government)

MAFF Coast Protection Survey of England, PM for South West Region

EA Shoreham Sea Defences Ph2, UK. Project Manager

Dominica Sea Defences, Dominica. Deputy PM

Kingsdown Coastal Defences, UK. Project Manager

MoD Thorney Island Sea Defences, UK. Project Manager.

Lyme Bay and South Devon Shoreline Management Plan (SMP) Scoping Study, UK. Project Manager

Umm Al Nar Shoreline Protection, UAE. Design Engineer

Mount Batten Breakwater Study, UK. Project Manager

Bridgwater and Bideford Bay Shoreline Management Plan (SMP) Scoping Study, UK. Deputy PM

Flooding Hazard from Extreme Sea Levels Study, UK. Deputy Manager, study for Nuclear Electric

Mudford Quay Replacement & Flood Wall Design, Dorset UK

Coastal Protection schemes, design & supervision (Resident Engineer) for Highcliffe Groyne Conversion and Beach Nourishment Scheme, Chewton Bunny Outfall CPW and Mudford Sandbank Groyne Replacement. Rock structures, beach nourishment UK

Sewer structural repairs supervision, Christchurch UK

Coastal Engineering Research, UK. Research Assistant on rock armour durability & performance for SERC. Contributed to CIRIA/CUR 'Manual on Use of Rock Armour in Coastal and Shoreline Protection'. Included physical model tests, field experiments. Also industry designer interviews, design database.