

Address: Penlee
Meadowbank Road
Falmouth
Cornwall
TR11 2ND

Phone: +44 (0) 7712 898101
E-mail: phil@seaengineeringsolutions.com

Nationality: British
Status: Married

Relevant Qualifications & In-date Training
2:1 BEng (Hons) Civil Engineering
CITB Construction Site Safety (Management)
BOSIET with HUET
GWO RUK Working at Height
Marine Transfer

Summary

A versatile marine and offshore engineering consultant, with a career spanning 20+ years, managing pioneering and sector leading projects, latterly project delivery critical roles for Blue Chip renewable energy developers.

Direct experience of project life cycle, including Development, FEED and Construction Phases. A unique skill-set combining operational experience with demonstrable high quality management in areas including offshore WTG foundations installation; WTG installation; WTG commissioning; large diameter drilling and XL foundations installation; foundation engineering; subsea tidal device installation; financing and project strategy development; procurement; Tier 1 & 2 contract and legal engagement; project funding; LCOE strategy development.

Began career "hands-on" working with jackup installation vessels and offshore pile-top drills. Progressed to managing pioneering offshore projects nationally and internationally; notably managed foundation installation for the UK's first major offshore wind farm at North Hoyle (2003), then Flamanville EPR riser shaft in Normandy (2008), which attained "Highly Commended-International Project of the Year" in the Ground Engineer 2010 Awards.

Strengths are "solving what can't be solved", team building, and team leading, work with respect, diplomacy and safety throughout, to achieve client and customer driven programme and financial targets.

Work History - Contractor Roles (9 years)

Jun 18
to
Present **Triton Knoll Offshore Wind Farm (Innogy Renewables UK). OCS Package Manager.** Offshore Construction Services. Responsible for procurement, successful delivery to the project and contract management during construction phase of up to 15 contracts; including offshore comms, UXO & boulder clearance, SOV, CTV's, personnel etc. *Contract engagement: ongoing*

Sep 17
to
May 18 **Galloper Offshore Wind Farm (RWE Innogy). Completions Package Manager.** WTG commissioning works, ensuring successful completion of WTG's and handover to Operations. This period also included specialist advice on jackup leg penetration issues during WTG installation. *Contract engagement: 9 Months*

Jan 15
to
July 17 **Galloper Offshore Wind Farm (RWE Innogy). Foundations Package Manager.** Primary role - Project Managing T&I for the 56 MP/TP foundations EPCI package (£350m+). Secondary role - managing the integrated design for WTG & Foundations. *Contract engagement: 2½ years*

Oct 14
to
Jan 15 **Fugro Seacore. Project Manager.** Specialist subcontract drilling works to Geomarine for delivery of 11 pontoon mooring piles for Jersey Ports. Site based role managing hard rock drilling and pile installation, all site based PM duties and responsibilities, client liaison, methodology development, HSEQ and commercial responsibility for Fugro Seacore Ltd. *Contract engagement: 4 months*

Aug 11
to
Oct 14 **Siemens Marine Current Turbines. Installation & Marine Operations Lead.** Overseeing T&I contract, including contractor procurement, FEED, installation strategy, technical due diligence, strategy for delivery of turbine array at Skerries and Kyle Rhea sites. All aspects of contract/project management, also project funding, and tidal farm economic modelling. *Contract engagement: 3 years*

Jul 10
to
Sep 11 **RWE npower renewables. Package Manager.** Managing the T&I Package of foundations to the Gwynt-y-Môr Offshore Wind Farm Project. Package involved ultimate budget and schedule responsibility for 160 Monopile and Transition Pieces. Included consultancy in marine ops, large diameter drilling, jackup ops, MP driveability and multi-contracting strategy development. *Contract engagement: 14 months*

Work History - Fugro Seacore Ltd (16 years)

2010 **Tendering & Contract Management. Contract Manager.** Commercial and contractual management for the specialist large projects; overseeing charter for Fugro's largest jackup on UK wind farm sites.

2009 **RWE npower Charters (£1.5m) - North Wales. Contract Manager.** Overseeing met mast installation and de-commissioning works. *Contract engagement: start to finish (4 months)*

Flamanville EPR - France. Project Manager. Completion of sub-contract installation of 450t diffuser. *Contract engagement: start to finish (3 years) - see later note*

2007-8 **Gunfleet Sands Wind Farm (£6M). Contract Manager.** Sub-contractor to MT Højgaard for installation of shallow foundation piles and transition pieces for R2 Wind Farm. Pioneering pile lifting technique successfully used in the field. *Contract engagement: start to finish (7 months)*

Flamanville EPR (£10.6M) - France. Project Manager. Sub-contractor to Soletanche Bachy France. Project over 3 years with different campaign each year. Completion of 5.85m diameter x 64m deep drilled marine riser shaft, installation of 300t steel liner. All aspects of project management; including design of new T90 pile top drill

- rig (largest pile top rig in the world at the time); all client contract liaison; resource and project team management, finance, commercial management and reporting; operational site management. Notable areas: high risk manufacture and fabrication; complex client liaison; technically demanding; very tight programme. *Contract engagement: start to finish (3 years)*
- 2006-7 **Upper Forth Crossing (£5.6M) - Edinburgh. Project Manager.** Sub-contractor to *Morgan Vinci JV*. Installation of foundation piles for Upper Forth Crossing. 16x3m diameter and 4x4m diameter piles, drilled rock socket, installation of reinforcing and 300m³ concrete pour per pile. Notable areas: environmentally sensitive area; exceptionally stringent pile tolerance requirements. *Contract engagement: start to finish (11 months)*
- Kirkcudbright STW Outfall (£1.2M) - SW Scotland. Project Manager.** Sub-contractor to *Alfred McAlpine* for the extension to STW outfall, sub-contract HDD bore 280m long through SSSI site, installation of 110m marine outfall pipe and connecting to HDD. Notable areas: winter exposure, long and technical HDD, offshore high current; diving works; seabed grabbing in running sands. *Contract engagement: start to finish (7 months)*
- 2005 **Greater Gabbard Met Mast (£0.7M) - Offshore. Project Manager.** Main contractor to *GGOWL* for foundation installation, erection and commissioning of 80m tall meteorological mast 26 nm offshore. Oil and gas principals used for the preparation and installation. 4 months planning concluded with 7 day installation phase, all completed to programme and budget. All aspects of offshore HSEQ for offshore principles. *Contract engagement: start to finish (5 months)*
- Gothenburg Beacons (£3.2M) - Gothenburg, Sweden. Project Manager.** Sub-contractor to *MT Højgaard* for foundation installation, erection and commissioning of 36 new navigation markers for Gothenburg main shipping channel. Notable areas: responsible for all Seacore finances abroad; all aspects of working in Sweden with H&S and welfare for 18 crew; technical drilling in extremely hard rock; operating in shipping channel. *Contract engagement: Final 5 months including hand-over to MT Højgaard*
- 2004 **Holyhead D4.2 Replacement Monopile (£0.4M) - Holyhead. Project Manager.** Main Contractor for the refurbishment and re-installation of one damaged dolphin fender pile including fender and pile cap. Co-ordination of activities from project commencement to project completion including documentation H&S and commercial. *Contract engagement: start to finish (2 months)*
- 2003 **North Hoyle Wind Farm (£1.3M) - Offshore North Wales. Project Manager - Turbine Erection.** Sub-contract to *Mayflower Energy Ltd* to assist with completion of turbine erection. Also sub-contract to *Vestas Celtic Wind Technology* for final 3rd blade installations. Notable aspects: LOLER responsibilities, extremely technical lift plan requirements; jackup height; working at height; offshore location; logistics for jackup and component deliveries. *Contract engagement: initial (2 months)*
- 2003 **North Hoyle Wind Farm (£5.4M) - Offshore North Wales. Project Manager - Foundations.** Main Contractor for the installation of 30 No. 4m diameter x 50m long piles. Co-ordination of all offshore and onshore activities for drive/drill/drive foundation installation. Involved in project from "cradle to grave". Responsibilities and roles included; preliminary design concepts and taking those through to completed plant and equipment installation, implementing contract documentation and HSEQ, shore-side monopole logistics, marine vessel procurement and contract negotiations, significant involvement with Excalibur jackup refit and mobilisation for piling works, responsible for 20+ personnel living offshore and 3+ personnel onshore. *Contract engagement: start to finish (11 months)*
- 2002 **Rhyl Flats Met Mast - Offshore North Wales. Marine Advisor.** Seconded to *SLP Energy* to coordinate marine activities associated with installation of 50m mast. *Contract duration: start to finish (1 month)*
- Shell Flats Met Mast - Offshore Blackpool. Marine Advisor.** Seconded to *SLP Energy* to coordinate marine activities associated with installation of 50m and 80m masts. *Contract duration: start to finish (2 months)*
- Cromer Met Mast - Offshore Norfolk. Marine Advisor.** Seconded to *SLP Energy* for marine activities to install mast offshore Cromer. Contract unsuccessful due to not being able to jack up on location. *Contract engagement: 4 months + arbitration*
- 2001 **Yttre Stengrund Windfarm (£1.2M)- SE Sweden. Project Manager.** Sub-contract to *AMEC Capital Projects* for drilling 3.7m diameter sockets, installation and grouting of 3.5m diameter foundation piles. Main Client: *NEG Micon*. *Contract engagement: start to finish (6 months)*
- 2000 **5 Months Sabbatical.** Round the world trip. Travelled through South Africa, Australia, Indonesia, Singapore, Malaysia, Thailand, Hong Kong and China.
- Blyth Offshore Windfarm (£1.9M) - NE England. Project Manager.** Sub-contract to *AMEC Marine* for drilling 3.7m diameter sockets, installation and grouting 3.5m diameter foundation piles for UK's first offshore windfarm. Main Client: *BOWL (Blyth Offshore Wind Limited)*. *Contract engagement: initial (3 months)*
- 1999 **North Antrim Outfalls (£2.8M) - Northern Ireland. Project Manager.** Main Contractor to client *DOE Water Service Northern Ireland*. Replaced Project Manager part way through contract. One outfall had been completed with three more to construct. Supervision of 2 jack-up platforms, diving operations with 2 subcontract diving firms, underwater blasting operations, land-based and marine based trenching operations. *Contract engagement: Final 11 months + hand over*

Holyhead Berth 4 - Berthing Dolphin Replacement (£0.25M) - North Wales. *Project Manager.* Main Contractor to *Stena Line*. Rejuvenation and re-installation of retrieved pile and fender assembly, collapsed due to excessive ferry berthing forces. *Contract engagement: start to finish (2 months)*

Office based - Cornwall. Seacore Construction Division, contract administration and tender preparation.

1998 **Watchet Sewage Scheme - Marine Outfall (£1.3M) - Somerset. *Project Manager.*** Main Contractor to *Wessex Water*. Design and Construct Contract with *Hyder Consulting (Plymouth)*. *Contract duration: 6 months*

Curaçao Mega Cruise Terminal. *Supervisor.* Subcontract to *Ballast Nedam NV*. Pile top drilling using Wirth B5 drill rig. Responsibilities: Mobilisation in UK and on Curaçao; Initiate drilling procedures and on-site working methodology with *Ballast Nedam*. *Contract engagement: setup and initial 3 months*

Jamnagar Refinery Complex, India. *Assistant Supervisor.* Subcontract to *Saipem U.K Ltd*. Drilling various socket diameters (1.2m to 3.0m). Seacore T10 and T40 pile top drill rigs. Initiated mobilisation and client liaison for Seacore drilling procedures and aspects of subcontract. *Contract engagement: setup and initial 3 months*

1997 **St. Helier Marina Piles, Jersey *Supervisor.*** Subcontract to *AMEC Marine* to install 70 No. 610 dia. piles in granite. Introduced at latter stages of contract to drill and engineer last piles, demobilise and close contract with AMEC. *Contract engagement: Final 3 months inc. hand-over*

Doniford Outfall Extension. *Supervisor/Engineer.* Design and Build installation of 0.5km 450mm dia. MDPE Outfall Pipe. Responsible for the contractual and operational mobilisation and initiation of the contract. *Contract engagement: initial 3 months*

1996 **Office based.** All aspects of tender preparation from initial project appraisal to submission of tender. CAD work, estimating, programming. Office contact for *Jordan Brine Intake Jetty* piling contract, including preparation of monthly applications for payment and site support requirements.

Hong Kong Strategic Sewage Disposal Scheme. *Shift Engineer.* Drilling and installation of two marine riser shafts 4.1m dia., blind drilled vertically in single pass 70m deep in granite, liner installed c/w diffuser head and grouted. *Contract engagement: start to finish (5 months)*

Stranraer HSS Piling. *Supervisor.* Subcontract standby pile relief drilling for 2.1m diameter fender piles. Seacore representative for client liaison. *Contract engagement: setup and initial 3 months*

1995 **Tranmere Oil Terminal. *Shift Engineer.*** Socketing and pile installation of new and removal of old, 1.6m diameter fender piles. *Contract engagement: start to finish (3 months)*

Holyhead Ro-Ro Link Span. *Leading Driller.* Subcontract drilling and pre-boring for 762mm diameter piles.

Holyhead Ro-Ro. *Shift Engineer.* Socketing in schist and installation of thirteen 2.1m diameter piles. *Contract engagement: start to finish (6 months)*

1994 **Holyhead HSS Linkspan. *Driller/Assistant.*** Subcontract drilling and pre-boring for 762mm diameter piles.

Plymouth Navigation Beacons. *Assistant Driller.* Drilling and installation for five navigation beacons within Plymouth Sound. *Contract engagement: start to finish (2 months)*

Presentations	SeaGen S 2MW Foundations @ Anglesey Skerries - SUT OSIG (Bath), June 2014 Developments in Large Diameter (XL) Drilling - DFI 39th Annual (Atlanta), November 2014
Papers	Cost Effective Drilling of Extra Large (XL) Monopile Foundations - February 2014
Other	Claims Management Masterclass
Qualifications:	BEng (Hons) Civil Engineering 2:1 Finance for Non-Financial Managers CSCS Environmental Manager CITB Construction Site Safety (Management) CSCS Appointed Person (expired) First Aider - 4 day + advanced O ₂ , Entonox and Defibrillation (expired) RYA Level 2 Powerboat Inshore Sea Survival (STCW 96) BOSIET with HUET (in date) GWO RUK Working at Height (expired) Marine Transfer (in date) Hydraulic Pedestal and Crawler Crane Operator (expired) HSE Pt IV trained, BSAC Sports & PADI Open Water diver Full car and motorcycle driving license

Personal Life

Happily married with three lovely daughters and a dog. Main holidays are camping/motorhoming and a very occasional ski in the winter. We own a small family boat and use it as often as weather and time allows during the summer. I own, operate and maintain a 1975 Triumph Dolomite Sprint. I spearfish, fish, cycle and motorcycle. My wife and I project managed the building of our eco-house, in which we now live.