

JIE ZHANG MSc, CEng, MRINA
ENGINEERING MANAGER, NAVAL ARCHITECT

University of Strathclyde, Master of Science (Hons) Marine Engineering 2008
Dalian University of Technology, Bachelor Naval Architecture and Ocean Engineering 2007
Chartered Engineer (UK)
Member of Royal Institution of Naval Architects

j.zhang@solis-marine.com M +65 9729 3329 T +65 6221 8568
Solis Marine Consultants, 20 McCallum Street, 19-01 Tokio Marine Centre, Singapore 069046

Jie is the Engineering Manager and a naval architect at Solis Marine Engineering Pte Ltd, the engineering division of the Solis Marine Group providing engineering, design and analysis services to the offshore and maritime, renewables industries and green shipping.

Jie's work includes hydrostatic and hydrodynamic analysis, mooring analysis, engineering design, project management and planning. He has delivered many challenging large-scale permanent installation projects, including deep water and ultra-deep water, with particular emphasis on integrating the offshore operational experience with onshore design engineering.

Upon graduating with a Master of Science in Marine Engineering in 2008 from the University of Strathclyde, he then worked as a Naval Architect / Project Engineer at Lloyd's Register Aberdeen for four years and has extensive knowledge of floating structures (FPSO and SEMI), North Sea integrity projects, design, hydrostatics, hydrodynamics, mooring analysis and structural analysis.

In 2013 Jie joined InterMoor Pte where he worked extensively in design, engineering, operations and client facing roles for mooring designs and large-scale offshore development and installation projects. These included deep water and tropical storm regions and numerous technically challenging projects. This work involved planning, mobilisation and installation procedures, offshore operations, technical guidance, lifting analyses, towing analysis, seafastening analysis, mooring and SURF (subsea umbilicals, risers and flowlines) installation operability analysis and operational simulation analysis.



SOLIS MARINE ENGINEERING PTE LTD., SINGAPORE, 2021 – PRESENT

- Green Fuel Vessel Conversion Projects, 2021 – 2022
- KML IDEOL Floating Wind Mooring Replacement Engineering Supports, 2021
- Offshore Renewable Industry and Vessels Suitability Studies, 2021

INTERMOOR PTE. LTD., SINGAPORE, 2013 - 2021

- LINGSHUI 17-2 SHENHAI-1 SEMI FPU, 2020 - 2021
A 1450m ultra water new gas field development and SEMI FPU installation in South China Sea.
As senior engineer during the mooring installation phases, review of engineering procedures and guidance of installation analysis, attendance of offshore operations.
As lead engineer during the moorings hook up to FPU phase, leading the technical team, review of analysis and engineering procedures. Interface with client and other sub-contractors and project management.
- LIUHUA 16-2 HYSY119 FPSO, 2019 - 2020
A 420m deep water new oil field development and FPSO installation in South China Sea.
As lead analysis engineer during suction pile phase, production and review of installation analysis and designs.
As lead engineer during moorings installation and hook up phases, leading the engineering team, review of analysis and engineering procedures. Interface with client and project management.
Support of subsea risers installation designs.
Attendance of offshore operations
- TAD & TLP at CRD field, 2017 – 2018
Project mooring analysis and engineering procedures onshore and project engineering.
- Benchamas FSO 2, 2017 – 2018
Production of subsea risers disconnection and installation to new FSO related analysis, subsea MWA installation analysis. FSO towing procedures and analysis. Project engineering.
- Balongan SPM CALM buoy system, 2017 – 2018
Production of driven pile lifting and installation analysis.
Production of mooring installation and hook up to SPM analysis.
Production of submarine hoses, floating hoses, and subsea umbilicals installation and hook up analysis.
- Vantage drillship and Belford drillship, 2016

Design of a Tri-catenary long term station keeping system for drillships and offshore engineering procedure and attended offshore operations, project engineering.

- Malikai TLP near shore, 2016
Design Malikai TLP near shore towing and winch test engineering procedures and review of project mooring analysis onshore. Project engineering.
- Layang FPSO, 2015 – 2016
Production of mooring installation and hook up analysis.
FPSO Towing analysis.
Installation equipment seafastening structural analysis.
- Offshore deep-water study for COSL, 2015 – 2016
1500m ultra deep water mooring system design, feasibility design and detailed engineering, cost comparison study. Project engineering.
- Atwood Eagle, 2015
Engineering and attendance of offshore moorings replacement operations.
- ENPING 24-2 HYSY118 FPSO, 2013 – 2014
A new oil field development and FPSO installation in South China Sea.
Production of FPSO mooring installation analysis and engineering procedures.
Attendance of moorings installation and hook up offshore operations.
- PANYU HYSY111 FPSO, 2013 – 2014
Involved in production of FPSO permanent mooring replacement analysis and engineering procedures.
- Various temporary mooring design and engineering projects.
Design of mooring system for offshore rigs in complex environment, provide equipment rentals and attendance of rig move operations.

LLOYD'S REGISTER, ABERDEEN, 2009 - 2013

- Lloyd's Register Floating Offshore Installation at a Fixed Location (FOIFL) standards development.
Hydrodynamic analysis, mooring analysis inputs.
- Enquest Producer FPSO, 2012
Design appraisal, mainly hydrodynamic analysis, mooring analysis (response based analysis) and structural analysis.
- Quad204 FPSO, 2011 - 2012

Design appraisal, mainly hydrodynamic analysis, mooring analysis (response based analysis) and structural analysis.

- Prelude FLNG, 2010 - 2011

Design appraisal, mainly hydrodynamic analysis, mooring analysis (response based analysis) and structural analysis.

- GP3 FPSO, 2009

Integrity services project engineering and structural review.

- Gryphon FPSO, 2009

Integrity services project engineering and structural review.

- Janice Semi-submersible FPU, 2009 - 2010

Integrity services project engineering and structural review.

- Captain FPSO, 2009 - 2010

Integrity services project engineering and structural review.

EMPLOYMENT HISTORY

2021 to Present	Solis Marine Engineering Pte. Ltd. Singapore Engineering Manager, Naval Architect
2013 to 2021	InterMoor Pte. Ltd. Singapore Senior Project Engineer / Senior Naval Architect
2009 to 2013	Lloyd's Register. Aberdeen Naval Architect / Project Engineer