

TERRICK TOH, BENG (MECHANICAL) STRUCTURAL DESIGN ENGINEER

University of South Australia, Bachelor of Engineering Mechanical (Hons) 2010
Ngee Ann Polytechnic, Diploma in Shipbuilding and Offshore Engineering 1995

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Terrick is a structural design engineer at Solis Marine Engineering Pte Ltd, the engineering division of the Solis Marine Group providing engineering, design and analysis services to the offshore, shipping and renewables industries.

Terrick's work includes structural design (2D drawings and 3D modelling), site inspection and material take off production. He has delivered on many different kinds of hull structural projects involving a variety of vessels including oil tankers, bulk carriers, cable laying vessels, container ships, jack-up drilling rigs, semi-submersibles, FSOs, FPSOs and fixed jackets for offshore wind farms.

Over the past 14 years, he has been involved in eight FPSO / FSO conversion projects, with full project life cycle for most projects starting from the early engineering, FEED, bidding and EPCI. During this time he has predominantly been working on structural design for turret mooring systems, hull integration with mooring systems and hull reinforcement for topside modulus support. He has also been deployed to site as site structural engineer to assist site teams with technical or construction issues during construction phases

TERAS OFFSHORE PTE LTD., SINGAPORE

Changhua Phase 2 – 300MW Offshore Wind Farm, 2021 – 2021

An offshore wind farm installation project in Strait of Taiwan. As structural engineer reviewing all structural technical specification and drawings for WTG jackets, OSS topside, jacket and piles installation specification for WTG and OSS jackets.

PROMOR PTE LTD, SINGAPORE

FSO Golden Star – Sao Vang and Dai Nguyet field

As structural design engineer, designing and producing 2D drawings / 3D model for chainstopper and turret shaft with chaintable. Turret rigid arm integration with hull structure. Production of standard details drawing for ship side and Turret side.

Preparation of MTO, construction drawings and workshop drawings. Attendance overseas FAT and SIT for chain stopper and site inspection during construction period to ensure fabrication carried out as per drawings issued. Assistance for site construction team and subcontractor in solving technical problem or other issues during construction phase.

BUMI ARMADA SINGAPORE PTE LTD, SINGAPORE

- FPSO Armada Claire – Balnaves field
- FPSO Armada Sterling 2 - Cluster 7 field
- FPSO Olombendo - Angola Block 15/06 East Hub
- KAKINADA KG98/02 (Bid project)
- BAROSSA FPSO (Bid project)
- KAROON FPSO (Bid project)

As senior structural design engineer, design and production of 2D drawings / 3D model for chainstopper and turret shaft with chaintable. Turret rigid arm integration with hull structure. Production of standard detailed drawings for ship side and turret side.

Preparation of MTO, construction drawings and workshop drawings. Attendance overseas FAT and SIT for chain stopper and site inspection during construction period to ensure fabrication is carried out as per drawings issued. Assistance to site construction team and subcontractor in solving technical problems during construction phase.

APL MANAGEMENT PTE LTD, SINGAPORE

- 1655 - Hai Thach STL
- 1719 – ETP Lamson
- Hai Thach Offshore Installation Campaign

As senior structural design engineer, design and production of 2D drawings / 3D model for items including cylinder structure, swivel support beam, top structure, access stair tower, ETP support structure. Integration of STL system with hull structure. Preparation of MTO, construction drawings and workshop drawings. Offshore installation for anchor piles, MWA (Mid-Water-Arch) and STL buoy.

PROSAFE PRODUCTION PTE LTD, SINGAPORE

- FPSO Polvo
- FPSO Umuroa
- FPSO Ningaloo Vision

As structural designer, design and production of structural and outfit drawings for shipyard fabrication. Liaison with other discipline sections like piping, mechanical, electrical, and instrumental on any interference issues. Site inspection during construction period to ensure fabrication carried out as per drawings issued. Preparation of MTO, construction drawings and workshop drawings. Turret cassion integration with hull structure. Proposal solution to site construction issues. Case study on different scenarios for turret during connection. Case / option studies for turret proposal in different bids project.

NOBLE CORPORATION, SINGAPORE

Noble Danny Adkins (semi-submersible)

As outfit design engineer, production of detailed outfit drawings for construction drawings and workshop drawings. Provision of support in the review of engineering drawings and documents.

PPL SHIPYARD, SINGAPORE

- P2003 Development Driller Class Semisubmersible (Global Santa Fe - Rig 184)
- P2005 BMC 375 Pacific Class Jack-Up (PT Apexindo Pratama Duta TBK)

As structural design engineer, production of detailed outfit drawings for site fabrication. Production of jack-up rig leg erection and block lifting drawings. Production of cutting plan file from outfit drawing for CNC cutting machines. Production of pad eye and lifting drawings for block overturn and erection. Design and production of installation procedure drawings for jack-up rig leg erection.

KBR (KELLOGG BROWN & ROOT), SINGAPORE

- Occidental - PS-1K Production Platform
- PTTEP – Arthit 2B (Wellhead Platforms)

As structural design engineer, production equipment supports and monorail detail drawings, access platform detail drawings. MTO and weight calculation for offshore jackets and equipment supports. Preparation of detailed structural drawings for site fabrication and steel weight calculation for wellhead platform.

PPL SHIPYARD, SINGAPORE

- P2001 Constellation Class Oil Rig (Global Santa Fe - Rig 182)
- P2002 Constellation Class Oil Rig (Global Santa Fe - Rig 183)

As structural design engineer, production of main hull, spud can, jack case upper guide and crane foundation drawings. Leg erection and block lifting drawings. Cutting plan and nesting files for CNC machine. BMC-900 and BMC-1600 Series offshore crane drawings.

KEPPEL SHIPYARD, SINGAPORE

Cable laying Vessel.

As structural design engineer, production of hull structural detail drawings. Weight and C.G calculation for blocks erection.

IHI MARINE ENGINEERING (S) PTE LTD, SINGAPORE

- Split barge
- Floating crane
- Slipway

As assistant engineer, preparation of hull structural drawings and MTO calculations. Equipment supports and foundation detail drawings. Steel weight calculation for split barge. Onboard vessel or site inspection for repair and modification jobs.

EMPLOYMENT HISTORY

2021 to Present	Solis Marine Engineering Pte. Ltd. Singapore Structural Design Engineer
2021 to 2021	Teras Offshore Pte. Ltd. Singapore Structural Engineer
2019 to 2021	Promor Pte. Ltd. Singapore Structural Design Engineer
2013 to 2018	Bumi Armada Singapore Pte. Ltd. Singapore Senior Structural Design Engineer
2011 to 2013	APL Management Pte. Ltd. Singapore Senior Structural Design Engineer
2007 to 2010	Prosafe Production Pte. Ltd. Singapore Senior Structural Design Engineer
2006 to 2007	Noble Corporation, Singapore Outfit Design Engineer
2004 to 2005	PPL Shipyard, Singapore Structural Design Engineer
2003 to 2004	KBR (Kellogg Brown & Root), Singapore Structural Design Engineer
2001 to 2003	PPL Shipyard, Singapore Structural Design Engineer
2000 to 2001	Keppel Shipyard, Singapore Structural Design Engineer
1998 to 2001	IHI Marine Engineering (S) Pte Ltd, Singapore Assistant Engineer