



CURRICULUM VITAE
CHARLES J. L. YUEN

Personal Details

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Nationality Singaporean

Qualifications

M.Eng. (Distinction) in Advanced Marine Design, University of Glasgow, UK
C.Eng. ,Engineering Council, UK

Professional Affiliations

Member of The Royal Institution of Naval Architects, MRINA

Background & Experience

TMC Marine Pte Ltd.

Consultant Naval Architect (Current) Jul 2017 – Present

Undertaking a diverse range of offshore and general marine surveys, audits, investigations, casualties and legal opinion work including:

- Provision of naval architecture advice to the owners and their P&I Club during the salvage and wreck removal phase of Grounded Containership “KEA TRADER”
- Oil Spill Response & Pollution Investigation on behalf of P&I Clubs
- Vessel condition, Loss Prevention, collision and damage surveys
- Assisted owners and their legal team in the assessment of Coating damage, Sea-fastening and Ship/ CAP Survey Procedures.
- Cargo Damage Surveys, Shipyard/ Industry audits, Owner’s Rep. for FPSO Construction (“May 2020 - present”)
- Weight Control Surveys during refurbishment of Passenger Cruise Liners “CARNIVAL SUNRISE”, “CARNIVAL SPLENDOR”

DNV GL Maritime Advisory, South East Asia & Pacific

Senior Consultant (Engineering Advisory) Dec 2014 – Jul 2017

Extensive experience in surveying a wide range of ships and Mobile Offshore Drilling Units. Surveys include classification & statutory surveys, hull & machinery damage surveys, vessel damage assessments and marine accident investigations. He has also acted as class surveyor supporting the Fleet in Service, DNV GL Maritime.





Other responsibilities include undertaking technical analyses using a variety of proprietary and commercially available naval architecture software packages to perform the following:

- Global and local structural analysis
- Fatigue life assessment
- Condition assessment of vessel

DNV GL Oil & Gas, Singapore (Noble Denton Marine Services)

Principal Surveyor (Marine Casualty Investigation) Jul 2013 – Dec 2014

Senior Surveyor (Marine Casualty Investigation) Jan 2012 – Jul 2013

Employed within the MCI organisation and undertaking a range of investigative and due diligence surveying and consultancy:

- Structural damage analysis
- Casualty attendances & Causative opinion work
 - o Investigation and repair cost estimate for ship engine, machinery and boiler defect
 - o Inspection and opinion regarding the extent and repair cost of damage to jack-up hull
 - o Investigation into heavy lift failure
 - o Investigation into the extent of damage from STS collision, grounding and fire
 - o Hull & cargo tank coating failure and tank over pressurization damage
- Comment on repair procedure / repair cost assessment
- Vessel / Rig condition & suitability survey
- Engineering consultancy & Technical Due Diligence

Noble Denton Marine Services

Engineer / Surveyor (Marine Consulting & Operation) Apr 2008 – Jan 2012

Providing technical advisory, Marine Warranty and specialist consultancy services in support of Noble Denton business:

- Heavy lift & installation work and sailaway (13 FPSO/FSUs)
- Marine transportation advisory (Seafastening & Towage)
 - o Review, attendance of Wet-Tow followed by dry transport of several offshore & marine vehicles:
 - Semi-Submersible Drilling Unit (Noble Jim Day, Aquamarine Driller)- Singapore to Curacao, Ulugan Bay Philippines to Singapore.
 - Jack-up Rig (Discovery I; Greatdrill Chitra, El Qaher I; COSL Craft, COSL Superior)-Singapore to



- Mumbai; Singapore to Egypt; Tianjin China to Sharjah, UAE.
- Jack-up Barge (Aramco HLJB, JB114 & JB115)- Singapore to Ras Tanura; Batam to Rotterdam.
- Pipelaying Vessel (Acergy Antares)-Singapore to Port Gentil, Gabon.
- Test Barge (CB 34 Subsea 7) - Singapore to Amsterdam.
- Review of and attendance for Wet tow of several barges containing FPSO modules/ Subsea Equipment around South East Asia (Alpha Star Project, Goldstar Project; Chevron Erawan Project; Armada Perwira FPSO Project; FPSO Kwame Nkrumah MV21 Project)
- Attendance for the wet tow of Semisubmersible hull pontoon (Petro-Rig III) - Dalian, China to Singapore
- Review of Wet tow of vessel around Singapore (Swiber Valiant, Swiber Gallant)
- Review and attendance of Wet tow for offshore tenders (SEAREX IX, Linau 81) - Pasir Gudang to Offshore E/ Malaysia
- Sea transport of several oversize offshore/ FPSO / Subsea modules - Singapore to Port of Tauranga, NZ; Cape Town Port Terminal to Batam, Indonesia; Singapore to Brazil; Singapore to Port Dampier, Australia.
- Structural review, loadout & integration
- Rig launching appraisal & survey
- Mooring studies
- Deadweight survey & inclining test (including preparation of the procedures and final test report) on ships and drilling units
 - "SEDCO S706" Semi-submersible Drilling Unit for Seadrill
 - "Castoro 10" Trench and Pipelay Barge for ENI Saipem
 - "GSF Explorer" Drillship for Transocean
 - "Deepwater Expedition" Drillship for Transocean
 - "Jack Bates" Semi-submersible Drilling Unit for Transocean
 - "Atwood Condor" Semi-submersible Drilling Unit for Atwood Oceanics

Noble Denton Marine Services (seconded to Prosafe Production Services Pte Ltd)

Structural Engineer / Naval Architect Dec 2007 – Apr 2008

Specialist evaluation of hull topside structure for the F(D)PSO Azurite project. Activities include:



- Review and evaluate load cases, member forces and support reaction
- Interpreting Finite Element models and output results of topside modules
- Access the strength, fatigue performance of ship topside structures
- Examining the hull global and local bending stress and their effect on the deck structure
- Interface with the shipyard for constructability issues, site queries and engineering deliverables

Lloyd's Register Asia, Singapore (South Asia Area Office)

Naval Architect / Surveyor (Marine Consultancy Services) Aug 2005 – Dec 2007

- Acted as an Exclusive Surveyor in the provision of ship assessment (CAP, HRS), Survey (Class & Statutory) & appraisal services (S&P, On/Off Hire). Surveyed more than 20 vessels comprising of VLCCs, Chemical Tankers, Vehicle Carriers, Container Ships & Offshore Heavy Lift Vessels.
- Prepared CAP Survey instructions to Surveyors, reviewed survey reports, provided recommendation on the CAP rating and facilitate the issuance of the CAP certificates for more than 30 vessels.
- Performed strength and scantling analysis for the ships.
- Pioneered the first in-house ShipRight FDA assessment in LR South Asia. This software helps identify fatigue prone areas on ships.

Lloyd's Register EMEA, London / Lloyd's Register Asia, Singapore

Ship Surveyor / Research Engineer Jul 2003 – Sep 2004

- Ship Survey (New Construction & Existing Ships)
- Ship Structural calculation/Plan Approval
- Performed local area fatigue analysis on ship structure
- Performed Finite Element modelling on existing Bulk Carriers

Sembawang Shipyard, Singapore

Intern - Quality Assurance and Control Department Nov 2000 – Jul 2001

- Assisted in the inspection of structures and machinery
- Gained material and corrosion inspections skills