

## DR ENG-BIN NG

### SEASONED OFFSHORE CONSTRUCTION AND ENGINEERING LEADER & MULTI-DISCIPLINED DIRECTOR/MANAGER



#### PERSONAL INFORMATION

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#### EXECUTIVE SUMMARY

Very experienced Senior Offshore Engineering, Construction and Management Executive with significant strategic and operational experience of leading large-scale offshore/subsea projects. Very extensive participation in the execution of EPCI, EPCM, T&I and engineering projects. Extensive experience of Project Management for subsea/offshore projects and responsible for engineering design, field engineering and project management while also actively supporting other key elements of projects. Extensive management experience of building and leading large teams (100+) of designers and engineers with responsibility for the delivery of complex projects and working for operators, contractors and consultants within the international oil and gas industry in often challenging working conditions. Registered Professional and Chartered Engineer with qualifications in Engineering, Business Administration and Law. Functioned as Technical Expert in Arbitration between two disputing parties on Offshore Construction Project. Author of Book entitled "Subsea Rigid Pipelines – Methods of Installation" published in 2019.



#### KEY SKILLS

- Strategy Formulation
- EPCI/EPCM/FEED Project Management
- Upstream Oil & Gas Industry Consultancy
- Offshore Engineering and Construction
- Cost and Risk Management
- Engineering & Construction (Conventional & SURF)
- Team Management
- FEED and Detailed Engineering
- Submarine Pipeline Design and Installation
- Setup and Management of Engineering Facilities
- Endorsement of Marine Works in Singapore as Qualified Person (PE)
- Coaching and Mentoring
- Contract Management
- Stakeholder Management
- Budget Management
- Site Supervision
- Coaching & Mentoring
- Team Management
- Risk Management
- Upstream Oil & Gas Consultancy



#### SELECTED CAREER ACHIEVEMENTS

- As VP Engineering with EMAS AMC, significantly expanded the engineering division's capabilities across all disciplines to ensure the execution of multiple EPCI Conventional and SURF projects. Built the engineering team from 25 to 105 staff and facilitated continuous learning opportunities and mentoring. Managed the detailed engineering, installation engineering and project engineering for the USD1.6 billion Hasbah II Project.
- Led a team of engineers and support staff on a deep-water project for export pipelines valued at USD1 billion. This project encompassed design and engineering, procurement support, interface management and constructability assurance for Chevron's Deep-Water Development in Indonesia. Delivered the project on-time and on-budget and overcame a challenging shortage of skilled engineers by deploying own technical expertise.
- As Lead Engineer with Daewoo International Corporation in Myanmar oversaw the management of a SHWE Development Project on one of the largest South East Asia Gas Fields valued at USD2 billion. Acted as Lead SURF and Pipeline Engineer in front-end and engineering design (FEED). Successfully delivered on-time and in-budget front-end engineering design (FEED) phase completion.

- As Manager – Pipelines and Subsea at Aker Kvaerner, oversaw all the operations in the division and assumed the Project Manager role for key projects for various companies in Korea, Hong Kong, China, Singapore, Nigeria and India. Managed the design and on-site construction of a 4-km pipeline and diffuser in the Gulf of Khambat and led multiple key design projects for Hyundai Heavy Industries including Sinopec’s Hangzhou Bay (China) pipeline.
- As Deputy Divisional Manager for Offshore Construction & Engineering at SELCO based in Singapore, led every aspect of operations including tendering, implementing and leading multiple offshore projects in and around South East Asia. Negotiated contracts with leading companies including Union Oil Company, Sarawak Shell, Oil & Natural Gas Commission of India, Atlantic Richfield & Korea Heavy Industries.
- Built the WorleyParsons’ Subsea & Pipelines Department in Singapore from scratch and secured first contract within 3 months of the department’s inception.
- Helped built the project site office at Miri (E. Malaysia) for Selco in their joint venture with Shapadu Sdn Bhd, where they executed the Sarawak Shell Category 3 projects for several years.
- Led the pipeline engineering team at McDermott for all pipeline projects managed from the Singapore office. Played a key role in the development, fabrication & successful application of post-trenching with a plough for the trenching of submarine pipelines. Devised an innovative solution to install a U-bend expansion loop into a submarine pipeline replacing the conventional hyperbaric welding solution & saved the company millions of dollars.



## PROFESSIONAL EXPERIENCE

### Principal Consultant / Proprietor

June 2019 - Present

#### Submarine Pipeline Consulting Engineers

- Initiated own company as vehicle to offer consultancy services to the industry.
- Working with Intecsea (part of Worley Group) as a technical adviser and senior project manager with responsibility for managing selected projects.
- Acting in the dual role of Senior Project Manager for Intecsea as well as Deputy Project Manager and Construction Manager for the Integrated Project Management Team for the Shell SBM Pipeline Rejuvenation Project.
- Commissioned as Technical Expert in Arbitration by Legal Counsel for Claimant in a dispute involving an Offshore T&I contract that in the Gulf of Thailand (names of Claimant and Respondent withheld for legal considerations)
- Provides expert witness services for dispute resolution for the Oil & Gas global engineering and construction industry.

### VP Engineering/ Engineering Director

Dec 2011 – June 2019

#### Subsea7 Middle East

*Subsea7 is a world-leading seabed-to-surface engineering, construction and services contractor to the offshore energy industry. Subsea 7 provides technical solutions to enable the delivery of complex projects in all water depths and challenging environments, and has a fleet of high-performance vessels, capable of executing challenging subsea projects anywhere in the world.*

Originally joined EMAS AMC as VP Engineering, but since July 2017, EMAS was bought over by Subsea7 and I was re-designated Engineering Director/ Principal Engineering Manager for Middle East based in Singapore.

- Directed team of up to 105 staff in all engineering activities within Asia Pacific region; recruited, mentored and executed performance reviews of senior staff.
- Member of management team responsible for strategic direction in leadership, policy making and performance benchmarks within department to drive organisational growth.

- Oversaw implementation and refinement of formal processes, work tools and adequate training to support department development and broaden team capabilities.
- Coordinated with regional teams to achieve alignment of workflow processes and quality standards.
- Developed and nurtured client base through industry conferences and professional network.
- Play key support role in attaining company's Health, Safety, Security, Environment and Quality (HSSEQ) standards to create enhanced working environment.

#### Significant Highlights

- Expanded engineering unit's capabilities within 2 years to include heavy/engineered lift design, high end structural engineering analysis, deep water pipelaying analysis/installation, elaborate SURF installation analysis, vessel motion studies etc., building staff strength from 25 to 105 at its peak.
- Spearheaded streamlining of engineering functions into "Pipelines", "Platforms and Heavy Lift", "SURF", "Tender Support" and "Drafting" to enhance operational efficiency.
- Inculcated continuous learning culture through implementation of regular 'lunch & learn' sessions, joint research programmes with local universities and participation in international conferences etc.
- Was overall Project Engineering Manager for EMAS/Subsea7 for the biggest project won by EMAS AMC (Subsea7), i.e. Hasbah II project valued over USD1.6 billion.

#### **PROJECT MANAGER (CONTRACT)**

Feb 2011 – Dec 2011

##### **WORLEYPARSONS, INDONESIA**

*AUD 5 billion (2008) professional services firm headquartered in Australia. Serves the energy, resource, and complex process industries – specifically in infrastructure, power, oil & gas, minerals, and metal projects through a worldwide staff of 32,000.*

- Led team of diverse specialists to execute deep water (1100m and 1800m, respectively) FEED for export pipelines project valued at USD1 billion, encompassing design and engineering, procurement support, interface management and constructability assurance for Chevron's Gendalo Gehem Deep Water Development in Indonesia.

#### Significant Highlights

- Delivered on-time and on-budget front-end-engineering-design (FEED) completion.
- Overcame challenge of shortage in skilled engineers by utilising technical expertise in installation works, successfully completing project within stipulated timeframe.

#### **DEPUTY PROJECT MANAGER (CONTRACT)**

2010 – Jan 2011

##### **VIETSOVPETRO JV, VIETNAM**

*A Vietnamese-Russian Joint Venture company that is involved in Oil & Gas Exploration in Vietnamese waters, VSP is responsible for approx. 80% of the nation's oil and gas output, and contributes to 25% of Vietnam's economy.*

- Integral part of Construction Division management team.
- Represented VSP in contract negotiations with subcontractors, and reviewed, supervised, and approved sub-contractors' work on installation of FPSO for Hoang Long's TGT FPSO Project.

#### Significant Highlights

- Planned and coordinated loading, storage and unloading of chains and piles for FPSO installation onto installation vessels within stipulated timeline, despite additional time required to mentor and guide inexperienced staff.

#### **LEAD ENGINEER (CONTRACT)**

2009 – 2010

##### **DAEWOO INTERNATIONAL CORPORATION (MYANMAR E&P) MYANMAR**

*Oil & Gas exploration and production company under the Daewoo International brand. Founded one of the largest Southeast Asian gas field (Shwe field blocks A-1 and A-3) scheduled for production within five years with agreement for sales to China.*

- Oversaw SHWE Development Project valued at USD2 billion as Lead SURF and Pipeline Engineer in front end engineering design (FEED).
- Delivered on-time and in-budget front-end engineering design (FEED) phase completion.



## EARLIER CAREER

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2006 – 2009	Manager of Engineering	Subsea 7 Limited Asia Pacific
2004 – 2006	Manager – Subsea & Pipelines	WorleyParsons PTE Ltd, Singapore
1997 – 2004	Manager -Pipelines & Subsea	Aker Kvaerner E&C, Singapore
1991 – 1993	Engineering Manager	Rockwater Offshore Contractors, Singapore
1986 – 1991	Consulting Pipeline Engineer	McDermott South East PTE Ltd, Singapore
1983 – 1985	Deputy Division Manager	Selco (S) PTE Ltd, Singapore
1979 – 1983	Senior Pipeline Engineer	McDermott South East PTE Ltd, Singapore
1978 – 1979	Pipeline Engineer	RJ Brown & Associates, Singapore



## EDUCATION & PROFESSIONAL QUALIFICATIONS

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- Master of Laws (Transnational Oil, Gas and Energy Laws), University of Derby, UK, 2016
- Doctor of Business Administration, Newcastle University, Australia, 2009
- Master of Business Administration, Heriot-Watt University, UK, 1997
- Master of Science in Offshore Structures, Cranfield Institute of Technology, UK, 1978
- Bachelor of Science (Hons) in Marine Engineering, University of Newcastle Upon Tyne, UK, 1977
- Registered Professional Engineer (Singapore) since 1984
- Chartered Engineer (UK) since 1984
- Chartered Marine Engineer (UK) since 2007
- Fellow of the Institute of Marine Engineering, Science & Technology (UK), membership since 1984
- Certified PADI Diving Instructor #30110 since 1989
- Certified International HR Manager, 2017



## PUBLICATIONS

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- Author of Book entitled “Rigid Subsea Pipelines – Methods of Installation”, released on July 2019 by Partridge
- Several papers on Subsea Pipelines (available on request)



## MISCELLANEOUS INFORMATION

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- Languages: English (Fluent), Malay (Basic) and Mandarin (Very Basic)
- Availability: One-month notice
- References: Available upon request