



ROAM MARINE

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Curriculum Vitae

Glenn BROWN

BE Civil (Honours)

POSITION

Structural Engineer

EXPERIENCE

32 years

EXPERTISE

Experience in Topside Module design ranging from 80T to 6000T. Design of minimum facilities platforms. Extensive experience with drilling rigs involving rig refurbishment, module design and installation.

Installation Engineering.

Brownfield Platform modifications.

Lifting / Installation Engineering.

Subsea Design Engineering.

Onshore Plant Upgrades.

BORN

1964

CITIZENSHIP

Australian

LANGUAGES

English

EDUCATION

Monash University Australia (1983-1986)

Bachelor of Civil Engineering (Honours).

Monash University Australia (1987-1990)

Master of Engineering Science.

WORK EXPERIENCE

Z Marine Pty Ltd

Structural Engineer

Sept 2020 – present

Design of FMG Navigational Aid, concrete gravity base.

Design of a temporary support for a Ship Access Gangway.

Worley

Principal Structural Engineer

Aug 2019 – Sept 2020

Project – Woodside – Electrical Substation 50 Upgrade – Karratha Gas Plant

Design of new Low Voltage Switchroom support frame and footing

Design of Emergency Generator Exhaust support frame and footing

Design of new fire rated door and support framing for existing emergency generator building

Design of electrical culvert.

Design of electrical cable support frames

Design Specification for Low voltage switchroom

Bridge and culvert design check for installation of LV Switchroom

**Project – Woodside - KGP Electrical Substation Upgrade –
Karratha Gas Plant**

FEED Study – Electrical Substation 50 and 57 Upgrade

Structural Scope for the Electrical Upgrade for Substation 50 and 57

Project – Woodside - KGP Power Import Project

FEED Study – Independent Power supply to Karratha Gas Plant

Project – Woodside – Pluto-NWS Interconnect Project

Design of PRS Module for Road Transportation using SMPTs

Design of PRS Module for Sea Transportation including grillage for vessel

Icon Engineering

Jan 2019 – Sept 2019

Lead Structural Engineer

Project - KrisEnergy – Apsara Field Development

FEED Study – 6 well Minimum Facilities Platform. Topside and Jacket.

Project - Schlumberger – Well Test Equipment

Design review of the Ocean Apex Semi-Submersible for equipment loads and design of grillages for well test equipment.

Project - Brunei Shell Petroleum – Field Development Study

Concept Design of a 4 Leg Jacket, Jackup Installed, in 60m water depth.

Project - Woodside

Grillage design for a Hydraulic Umbilical Reeler

Wood Group PSN

2014 –2019

Lead Structural Engineer

Project – Woodside – GWA Life Extension Project

Strengthening of GWA Module D

GWA Flare Tower Refurbishment

Design and installation of the Anemometer Support structure on the GWA Flare Tower

Project – Woodside – NRA Flare Tip Replacement

Design of a Temporary platform for the Removal / Installation of the HP and LP Flare tips using a helicopter

Design of a Davit and haulage system to assist the implementation works

Concept Design for the removal of the HP Flare Tip using a Davit system

Project - Woodside - Persephone - Subsea completion and tie-back into NRA Platform.

Design of Subsea winch system.

Design of RESDV platform

Design of Riser Installation System

Offshore Supervisor for the conductor Lift and Subsea modifications.

Coordination and Supervision of construction works at King Bay Supply Base

WorleyParsons

1993 – 2014

Senior Structural Engineer

Project - Exxonmobil – Hebron Platform

Design of Upper Mezzanine Deck Level.

Design of MDS supports.

Project - INPEX – Ichthys Development

Design of subsea Flowline End Termination Platforms (FLETS) and in-line T (ILT) Platforms.

Project - Woodside – Goodwyn A Platform

Greater Western Flank Project – Installation engineering for the Riser and J –Tube. Designed an innovative solution that increased the safety and reduced the installation time offshore from 3 weeks to 1 week.

Project - Apache Energy - Ningaloo Vision FPSO Upgrade

Structural design of an 1100 Tonne Compressor Module.

Project - Fortescue Metal Group – T155 Expansion Project

Structural design and checking of several iron ore Transfer Stations and Drive Stations for loadout/ loadoff and sea transportation. Module weights varied from 200-500 Tonnes. Design of the sea-fastening and transportation steelwork.

Project - Woodside – North Rankin A Platform

Structural design and installation of a Deluge Module for the NRA Deluge system upgrade.

Structural design of the bridge support on NRA for the 2nd Bridge from NRB.

Project - ConocoPhillips – Bayu Undan Platform

Provided structural support for the Bayu Undan 2010 shutdown project, including the design and installation of a multilevel module to support the relocation of the PSV valves.

Provided structural support for the Bayu Undan shutdown project, and follow on maintenance contract.

Project - Woodside – Angel Platform

Package Engineer for Steel Procurement and an Aluminium Helideck. Detailed design of jacket leg ring stiffeners and launch rails. Checking Engineer for the topside module. Construction Support.

Project - Woodside – Perseus over Goodwyn A - FEED

Design of support steelwork for Perseus subsea well tie-ins to the Goodwyn topside modules.

Project - ADMA-OPCO - Umm Shaif Gas Injection Facilities – FEED Optimisation

UAP Topside Design – 6000 Te Module. Analysis included Loadout, Transportation, Floatover and Inplace design.

SRP Topside Design – 4000 Te Module. Analysis included Loadout, Transportation, Floatover and Inplace design.

Compression Platform, 1660 Te Jacket Design - Analysis included Loadout, Transportation, Lift, and Floatover design.

Project - Technip - Mutineer/ Exeter FPSO Project

Design of support steelwork for process equipment for the FPSO. Design check of the process support modules for the FPSO

Project - Clough Engineering - Bassgas Project

Design of installation and sea transportation aids for the self-installing platform. Checking of barge for load out and sea transportation. Checking of fabrication yard calculations for lifting and skidding of the platform. Design of temporary installation equipment, including sand jacks and generator support steelwork.

Project - BHP Billiton - Minerva Development

Design of Subsea Protection Frames.

Project - BHP Billiton - Griffin Development

Reanalysis of the mooring system for the Mid-depth Buoys.

Project - Phillips Petroleum - Bayu Undan Platform

Engineering checking of the CUQ module.

Project - Chevron - MFP Phase 2

Design of topside module for the Minimum Facilities Platform Phase 2.

Project - Chevron - Benchamas Platform

Installation engineering for modules ranging from 300 Ton to 30 Ton for the Benchamas Expansion Project.

Project - Apache Energy - Gibson/South Plato Platform

Design and supervision of drafting of a minimum facilities Platform. Coordinating all disciplines to provide a cost effective solution for the client.

Project - Apache Energy - Simpson Alpha & Bravo Platforms

Design and supervision of drafting of a minimum facilities Platform, including installation engineering. Coordinating all disciplines to provide a cost effective solution for the client.

Project - Japan Vietnam Petroleum Co., LTD - Rang Dong Field Development- WHP-E1

Design and supervision of drafting of a Well Bay Module.

Unocal Thailand - North Pailin Central Process Platform

Design of 2200Ton Topside Module. Analysis included, inplace, lift, loadout and transportation using the SACS computer program.

Project - Woodside Offshore Petroleum - North Rankin A Platform

Modification and upgrade of existing Drilling Rig to increase the AHD drilling capacity.

Design of new 200 Tonne Subbase.

Project - Woodside Offshore Petroleum - Goodwyn A Platform

Modification and upgrade of existing Drilling Rig to increase the AHD drilling capacity.

Project - Halliburton Australia P/L - Rig 200 Cement Module Design

Design and supervision of drafting and construction of Cement Module for Rig 200.

Project - Esso Australia Ltd - Infill Drilling Programs, BMB, MLA, SNA, CBA, TNA, FTA, MKA

Design and supervision of drafting of preparatory work for several Infill Drilling Programs.

Analysis of Topside Modules for drilling rig loads

Wholohan Grill and

PartnersPty Ltd

1989 – 1993

Structural Engineer

Project - Woodside Offshore Petroleum - Goodwyn 'A' Platform

Conceptual design of a lifting grillage to support the 'F' drilling rig modules. Total lift weight = 1800 Tonne. This included detailed analysis of the 'F' drilling modules and subsequent strengthening, bumper design, and loadout analysis.

Detailed design and analysis of the installation of module 'G' drilling rig including supervision of drafting. Design of primary and secondary bumper guides. Design of spreader beams. Total lift weight = 1000 Tonne.

Design of primary and secondary bumpers for the installation of Module 'K', including strengthening of module 'G' to accommodate the installation loads. Total lift weight = 200 Tonne.

Esso Australia Ltd - Various Brownfield Projects

Gas Lift and Water Handling Deck Extension. FLA Platform:

KFB - Fan House Roof Replacement

KFA - Sonsub and Divers Platform

Elevated platform to support the pioneer ROV on the "Flinders Tide" boat, used for the inspection of subsea pipelines.

Tuna Gas Compressor Module

Design of new guardhouse and civil works for Esso Barry Beach Marine Terminal

Project - Sundowner Offshore Australia Pty Ltd

Responsible for design and drafting coordination of an elevated pipe rack for the Sundowner Work Over Rig.

Project - Shell Refining (Australia) Pty Ltd

Design of an oil retention boom and support structure for the Shell Oil Refinery - Geelong.

Project - Magellan Pty Ltd - Palm Valley Gas Pipeline NT

Site investigation of a gas pipeline. Stress analysis of the pipeline and rectification work of the pipe supports and anchors.

Project - Esso Australia Ltd - Avon Building Upgrade

Design of a sound proof building for a gas turbine generator which included, footings, steel portal frame, sound proof walls and doors, fire protection system - passive and active, air intake filter system.

Design of a control room for the gas turbine generator which included, footings, tilt up concrete panels, doors, concrete roof, false floor for cable access.

Project - Balmain Construction - Favco Crane

Dynamic analysis of the Favco 250 crane & its effects on an existing multistorey building

VSL Prestressing Australia Pty Ltd

1987 – 1989

Structural Engineer

Conceptual design of various projects. Estimation of construction costs. Liaison and coordination with consulting engineers, architects, and clients. NATA signatory for the calibration of hydraulic jacks, used for stressing strand.

Design and supervision of construction of post-tensioned concrete slabs ranging from, carparks, commercial complex's, shopping centres, resorts and 1-14 level offices.