



## ROAM MARINE

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# Curriculum Vitae

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## Dr RICHARD EARL

**POSITION** Senior Structural Engineer

**EXPERIENCE** 19 years

**EXPERTISE** Richard has a wide range of structural engineering experience, from commercial buildings to large industrial and resource facilities and maritime structures and utilities. His strong technical background has allowed him to be involved in numerous complicated projects in all phases including the first Perth Seawater Desalination Plan, the Ma'aden (Al Khobar, Saudi Arabia) Industrial Estate Phosphate Plant Cooling Water intake and outfall structures, the cyclonic floating steel pontoons for Woodside's tug mooring facility in Dampier, and the satellite tracking antenna base for the European Space Agency in New Norcia.

**BORN** 1972

**CITIZENSHIP** Australian

**LANGUAGES** English

**EDUCATION** Bachelor of Engineering (honours), University of Western Australia  
Bachelor of Commerce, University of Western Australia  
Doctor of Philosophy (Civil - Structural Engineering),  
University of Western Australia

## WORK EXPERIENCE

*Feb 2017– present* **Earl Engineering – Free-lance structural engineer**

*Jan 2010– Jan 2017* **Structerre Consulting Engineers,  
State Manager WA (2016-17)  
National Principal Engineer (2014-16)  
Commercial and Infrastructure Manager (2010-13)**

### **Petronas LNG Jetty Bangladesh capacity upgrade review**

Study of existing LNG receival terminal on the banks of the Ganges.  
Assessment of existing terminal capacity to accept larger vessels.

### **Australian Treasury Management Burswood 33 Storey Apartments**

Schematic lateral stability design using ETABS software.

### **Currambine Shopping Center Precinct, Currambine, WA**

Design and documentation of various Center modifications and additions including Dan Murphy's, Cinema Upgrades, Aldi retail store, Spur restaurant, etc.

**Geraldton Eastern Breakwater Entertainment Precinct, WA**

Design and documentation of Lookout structure, Shade Structures, various landscaping structures on existing breakwater.

**Project Sponsor and Design Reviewer for large proportion of projects undertaken by the Commercial and Infrastructure department between 2010 and 2015.**

*2004– 2009*

**WorleyParsons,  
Manager Marine and Coastal / Marine and Structural (2007-9)  
Lead Structural Engineer / Senior Structural Engineer (2004-2006)**

**Hancock Prospecting Roy Hill Port and Rail Development, feasibility studies – Project Manager**

**Burrup Materials Facility Stage 2B Floating Tug Pens Cyclone Haven, Dampier, WA - Lead structural engineer.**

**Burrup Materials Facility Stage 1 Load out wharf – Reviewing engineer.**

**Australian Marine Complex Submarine Transfer Wharf - Reviewing engineer.**

**Australian Marine Complex Eastern Wharves – Reviewing engineer.**

**Dampier Port Authority Short Term Cargo Wharf Concept Design – Structural Engineer.**

**Ma'aden (Al Khobar, Saudi Arabia) Industrial Estate Phosphate Plant Cooling Water intake and outfall structures Front End Engineering Design – Lead engineer, Detailed Design – Review Engineer.**

**IKEA Superstore Perth – Reviewing engineer.**

**Sunset Coast Water Alliance Perth South Metropolitan Sewerage Plant Bundle Upgrades - Lead Structural Engineer**

**Coral Bay Wastewater Treatment Plant - Lead Structural Engineer.**

**Alkimos Outfall Structure and Pipeline – Lead Engineer**

**Perth Reverse Osmosis Desalination Plant (Number 1 – Cockburn) - Lead Structural Engineer.**

*2002– 2004*

**Wood & Grieve Engineers, Project Engineer**

**CBH Apartment Building, West Perth**

**Metro Apartment Building, West Perth**

**Geraldton Port Authority Wharf Remediation**

**Diesel Motors Mercedes, Bentley**

**Burswood Towers Concepts**

**Warburton Health Care Facility and Multi-Function Police Facility**

**Harvey Norman Midland / Pivot Showrooms, Midland**

**Mount Pleasant Baptist Church**

**Motorolla Building Nedlands**

**Orelia Primary School**

**Cockburn Dental Clinic**

**HMAS Stirling Armoury Facility, Garden Island**

**Esplanade Hotel Expansion, Marine Terrace Fremantle**

**Bethesda Hospital Expansion**

**Arcadia Court Apartment Building**

**Margaret River Shopping Centre Extensions**

**Floreat Forum Upgrade & Extensions**

**King Edward Rd Commercial Centre, Osborne Park**

*1998-2002*

**Connell Wagner (now Aurecon)**

**Harvey Norman Store, Armadale**

**Kalgoorlie Nickel Smelter**

**Target department store, Joondalup**

**Millennium Cinemas, Fremantle**

**RAAF Learmonth**

**Shenton College, Shenton Park**

**Bunbury Port Authority Berth Review**

**Royal Perth Yacht Club Extensions, Nedlands**

**Pemberton Hospital**

**Harvey Norman Department Stores, Whyalla and Mt Gambier, Adelaide**

**Fremantle Justice Complex, Fremantle**

**Monkey Mia Visitor Centre**

**Motorola centre, Crawley – Dynamic analysis of column-less computer floor**

**CY O'Connor College of TAFE, Moora**

**Great Southern Agricultural Research Centre, Katanning**

**European Space Agency Antenna Base, New Norcia**

**King Edward Memorial Hospital Refurbishment**

**Costa's Fresh Produce Distribution Centre, Jandakot, Western  
Australia**

*1995-1998*

**PhD Studies, University of Western Australia**