

PERSONAL INFORMATION

Name: Peter Kastrup
Address: 3/36 Tenth Ave, Windsor 4030, Queensland, Australia
Telephone: +61 42 3735 850
E-mail: Peterkastrup1@hotmail.com
Nationality: Danish
Year of birth: 1980
Languages: English and Danish (some German, Norwegian and Swedish)
Qualifications: MSc in Structural and Civil Engineering at Aalborg University, Aalborg, Denmark, 2005

**PROFESSIONAL PROFILE**

I have 3 years international experience working with maritime and land based structures both permanent and temporary works. I have worked within the fields of maritime engineering: coastal, structural, geotechnical and naval architecture.

With Arup in Brisbane, I have worked on large scale projects such as Marina Coastal Expressway (Singapore), Macintosh Island Bridge, Hale Street Bridge and Newstead Riverpark.

After obtaining my Master of Science in Structural and Civil engineering in Aalborg, Denmark in 2005, I decided to take the challenge and move to Australia. I started working for Madsen Giersing Consulting Engineers in October 2005. Here I worked mainly on detailed design of and construction services for wharfs, terminals and barges/pontoons.

During the latter stages of my education I completed an internship in maritime engineering with Ben C Gerwick, Inc. in San Francisco, California, USA.

PERSONAL PROFILE

I consider myself calm by nature, patient and hard-working. I try to find the positive aspects in sudden turnarounds. If someone is down, it is always good to make an encouraging and humorous approach. I am open to new things and adapt to new surroundings quickly - this being from a professional and cultural point of view.

EXPERIENCE

2007 - Present:
Engineer, Arup, Brisbane, Australia

Marina Coastal Expressway, Marina Bay Crossing for Samsung, Singapore, Design Engineer, 2008

Short term assignment in the Arup Singapore office for 2 months. Tender design of 10-laned expressway tunnel under Marina Bay Crossing. Maritime and hydraulic assessment of effects of extreme flow from Marina Barrage on temporary and permanent works. Vessel impact and berthing assessment. Structural design of tunnel and trunk sewer. Preparation of risk assessment. To be completed by 2015.

Channel Island Power Station, Darwin, Design Engineer, 2007 - 2008

Feasibility study of seawater cooling upgrade for existing power station. Scheme design and review of proposed options for seawater intake and outfall structures. Main option was caisson intake structure connected to trestle structure. Preparation of cost estimates and feasibility report. Budget AU\$8M.

New Bugis Station for Land Transport Authority, Singapore, Design Engineer, 2007 - 2008

New subway line in Singapore with alignment under existing Bugis station. Check of capacity of existing Bugis station and design of reinforcing members for structural elements modified to make way for new subway line and station. To be completed by 2012.

Hale Street Bridge, Brisbane, Design Engineer, 2007 - Present

Independent verification for Hale Street Link Project across Brisbane River. Ship impact assessment. Load and vessel evaluation and risk assessment vs. importance of structural elements. To be completed by 2012.

Macintosh Island Pedestrian Bridge for Ark Construction Group Austress Freyssinet Joint Venture, Gold Coast, Design and Site Engineer, 2007

Construction of 110 m long cable stayed pedestrian bridge over Nerang River Channel.

Scour assessment and site auditing for construction of bridge, which was designed by Arup Hong Kong and Brisbane. Frequent inspections on site and off-site construction of prefabricated elements including precast beams, steel towers and balustrade. Handling of design queries during construction. Ongoing quality assurance of construction work and non-conformance issues. Bridge constructed in a record 4.5 months. Completed 2007. Project cost AUS\$4.2M.

Newstead Riverpark for Mirvac, Brisbane, Design and Site Engineer, 2007 - Present

Residential development of large riverfront property in Brisbane.

Update and revision of design previously submitted in 2005. Wharf inspection and preparation of inspection report and remediation procedure. Responsible for submittal of wharf repair, riverwall (gravity wall and retaining wall), and relief drainage design packages. Design of reconstruction of existing deteriorated drains. Detailed review of aesthetic lake design. Inspection of prefabricated elements and site. To be completed by 2010. Project cost AUS\$200M.

Lun Kwu Tan Beach Erosion for China Light Power, Hong Kong, Design Engineer, 2007

Assessment of assumed beach erosion, which have undermined pipeline tray.

The beach level has lowered leading to undermining of the pipe tray and loss of beach amenity. Design of rock armour seawall, design of groyne/boat ramp and assessment of beach renourishment. Review of design drawings and design documentation specifications and reports prepared by Arup Hong Kong. To be completed by 2008.

2005 - 2007:**Design Engineer, Madsen Giersing Consulting Engineers, Brisbane, Australia****Dalrymple Bay Coal Terminal Expansion Stage 7 for John Holland Group, Mackay, Design Engineer, 2007**

Construction services. Approach jetty expansion capacity check for installation of deck elements. Check of wharf deck for lifting of Liebherr carbody with 100 T mobile crane. FEM analyses of approach jetty headstock for cantilever loads. Client contact and management of drawing preparation. To be completed by 2009. Budget AUS\$1100M.

Spoil Barge Unloading Facility for Port of Brisbane, Design Engineer, 2007

Preliminary design of two options for a spoil unloading finger wharf. The wharf was designed for truck and excavator access and mooring of spoil barges. Completed 2008.

New Tug Pontoon at Operations Base for Port of Brisbane Corporation, Design Engineer, 2006

Detailed design of 22 x 3m steel pontoon for berthing of new tug boats. This included design of pontoon, piles, gangway and abutment. Responsibility for client contact and management of sub-consultants and drawing and design package preparation. Completed 2008. Budget AUS\$800K.

RG Tanna Coal Wharf Expansion for John Holland Group, Gladstone, Design Engineer, 2006

Detailed design as a member of team of 15m pile gate tower for driving piles of four nominated rakes. Falsework design for the attachment of the pile gate tower to SEP and existing headstocks. Load allowance assessment for 100T mobile crane operation on precast deck span. Design of load spreader beams. Site inspection. To be completed by 2008. Budget AUS\$100M.

Self Elevating Platform for John Holland Group, Gold Coast Desalination Plant, Design Engineer, 2006

Conceptual design of modular SEP. Detailed design modified to design of 24 x 36 x 4m bulk SEP. Capacity of platform 800T. To be completed by 2008. Budget AUS\$1000M.

Modular Self Elevating Platform for Smithbridge, Design Engineer, 2006

Detailed design of modular SEP. Detailed design modified to design of 18 x 26 x 3m bulk SEP. Capacity of platform 400T.

Australian Marine Complex for John Holland Group, Perth, Design Engineer, 2006

Detailed structural assessment of 8m mast extension (to total height of 45m) of pile driving barge. Stability assessment of pile driving barge for various pile driving scenarios. Design of 410T tension pile testing arrangement. To be completed by 2008. Project cost AUS\$175M.

Ifira Port Development for Schutz Asset Management, Vanuatu, Design Engineer, 2006

Tender design. Design of container wharf deck with precast and in-situ concrete. Wave height assessment and re-treatment design.

Hay Point Offshore Navigation Structures for Smithbridge, Design Engineer, 2006

Detailed design of upending beams for jack-up barge. FEM ship loader boom crane lift assessment of jack-up barge capacity. Assessment of mooring line loads for dumb barge. Completed 2006.

Whyte Island Tug Base - Adsteam pontoons for Port of Brisbane, Design Engineer, 2005

Detailed design of two 10 x 3m steel pontoons for berthing of line boats. The design included the pontoons consisting of steel tubes, 14m steel piles, an 11m aluminium gangway and concrete abutments. Responsibility for client contact and management of sub-consultants and drawing and design package preparation. Site inspections. Completed 2006. Cost AUS\$800K.

2004 - 2005:

Ben C Gerwick, Inc. Consulting Engineers, San Francisco, CA, USA, Internship

Working in various fields of maritime engineering: structural, coastal, geotechnical and civil engineering with an American perspective. I worked on large projects such as San Francisco Bay Bridge and Olmsted Dam. Other projects included permanent and temporary marine structures. Specific project details can be provided.

IT-SKILLS

High user level: MS Office, AutoCAD, MathCAD, MATLAB, Maple, Adobe Acrobat, TEDDS, Microstran, Algor, GSA, Alp, Rapt, Strand7.

Familiar with: Plaxis, MicroStation (Can adapt quickly to new software).

OTHER INFORMATION

- Military Service at the Royal Danish Air Force, Karup Air Base, Denmark, 1999 - 2000.
- Spare time activities: Surfing, tennis, soccer, basketball, fitness, cycling and running - also to work.
- I enjoy travelling a lot! Visited countries: Most of Europe, USA, Canada, Mexico, Australia, Thailand, Vietnam, Tibet, China, Japan, Fiji, Singapore and Malaysia.