

Rodolfo Eccard Bacha

874, E 18th Ave, Vancouver, BC • +1-778-689-4250 • rodolfoeccard@yahoo.com.br

PROFILE

Structural Civil Engineer with 8+ years of experience in port and industrial design, including management and planning of projects, analysis of contracts, proposal and budgets, preparation of technical specifications and monitoring / management of works.

PROFESSIONAL EXPERIENCE**Chief Site Civil Engineer**

Nov 2017 – Dec 2018

DEC – Dragagem, Engenharia e Comércio LTDA, Brazil

- Managing and coordinating the recovery works for a shore protection riprap (+US\$ 1 Million);
- Coordinating activities between heavy construction equipment and the work team in the same location and ensuring their safety;
- Communicating with stakeholders and managing a wide and varied team;
- Controlling work schedule and budget.

Structural Civil Engineer

Jan 2011 – Jul 2017

R.Peotta Engenharia e Consultoria LTDA, Brazil

- Modeling, analyzing and designing ports and industrial structures using finite elements structural analysis software (SAP2000, STRAP, MATHCAD);
- Detailing concrete and steel structures and assisting designers and draftspersons on the elaboration of drawings;
- Analyzing berthing and mooring of vessels (up to 400m and +300,000 DWT) according to PIANC standards and also using the software OPTIMOOR;
- Coordinating several projects and design teams;
- Visiting work sites and monitoring the works to guarantee the structures are constructed in accordance with the design and safety procedures.

EDUCATION**Civil Engineering****Major in Structural Engineering**

2011

UFRJ – Federal University of Rio de Janeiro, Brazil

SKILLS

- Project management and coordination, team supervision
- Language skills: English, Portuguese (Brazilian native);
- Software skills: SAP2000, STRAP, AUTOCAD, MATHCAD, OPTIMOOR, MS OFFICE;
- Strong teamwork and communication, fast learner, self-motivated and determined, client focused.

PROJECTS DEVELOPED

Pontal do Paraná Container Terminal – Paraná – PR

- Detailed design of the terminal backyard with a 25,000m² warehouse, administrative building with 5 levels, electrical substations, health and support buildings in steel structure and concrete bases for loads of 5,0t/m²;
- Detailed design of the railway for RMG's with 500tons, 36,00m wide and 1 over 6 containers height.

Access Bridge Repair – Mucuripe Port – CE

- Detailed design for the demolition of one span of the access bridge with 4 prestressed beams of 18,0m each damaged by the collision of a Tug;
- Detailed design of the new structure using composite beams with 18,0m;
- Reinforcement and casing of 3 existing piles damaged during the collision.

Brasco-Briclog Offshore Support Base – Rio de Janeiro – RJ

- Detailed design of the terminal backyard with warehouses in steel structure, concrete bases for loads of 5t/m², electric substations and health and support buildings.
- Design of the warehouses foundations with ϕ 42cm precast concrete piles.

OSX Shipyard – Porto do Açú – São João da Barra – RJ

- Detailed design of 800m runway for a 1600t Goliath crane;
- Design of the Goliath crane runway foundation with 587 Continuous Flight Auger Piles ϕ 1200mm.

Harbour Terminal of Wellstream – Ilha da Conceição – Niterói – RJ

- Detailed design for berthing and mooring dolphins for ships up to 240 m;
- Design of structural recovery of existing dolphins.

Logistic Base of Wellstream – Ilha da Conceição – Niterói – RJ

- Detailed design of Wellstream Logistic Base Installations;
- Design of the foundations for an equipment of 800t weight;
- Design of the pile foundation, with 83 cast-in-place piles for a fixed crane of 320t capacity and 60m boom length.

Citrosuco Wharf – Port of Santos – Santos SP

- Detailed design for structural recovery of Citrosuco Wharf berth 29 damaged by the collision of a vessel.

Expansion of CSN ore yard – Porto de Itaguaí – Itaguaí – RJ

- Basic design for the expansion of ore yard and installations of a new conveyor and reclaimer equipment.

STX-PROMAR – Suape – PE

- Basic design of industrial warehouses using precast concrete for the operation of Crane Bridge up to 80t;
- Basic design of the administration buildings using precast concrete.

TIG Access Bridge – VALE – Mangaratiba RJ

- Basic design of the enlargement of the access bridge to Ilha Guaíba Terminal – VALE with 364m long in prestressed concrete.

CPBS VALE Terminal – Itaguaí – RJ.

- Evaluation of efforts acting on mooring / berthing systems and check of the possibilities of secure moorings for 50.000dwt, 180.000dwt and 250.000dwt vessels moored at Companhia Portuária Baía de Sepetiba (CPBS) pier.

Champion Technologies Installations– Santa Cruz – RJ

- Basic design of administration buildings and industrial warehouses foundation with precast concrete piles.

Expansion of TGL/TEVIT VALE – Praia Mole Terminal – Vitória – ES

- Conceptual design of the Praia Mole pier expansion for liquid bulk terminal for ships up to 60.000dwt.

Wind Fence Votorantim Cimentos S.A. – Port of Imbituba SC

- Basic design of the structure of the fence support towers (Wind Fence) on tubular steel structure with 30m high and its foundations.

DERSA Shipyard – Guarujá – SP

- Detailed design for the new maintenance carrier for boats up to 76.0m at DERSA shipyard.

DERSA Ferry Dock – Ilhabela – SP

- Detailed design of the dock structure of Ilhabela ferry.

ITV – VALE Technological Institute – Belém – PA

- Basic design of the foundations of the access structures of the Technological Institute of VALE (ITV – VALE)