

CURRICULUM VITAE

IRANI PEREIRA DOS SANTOS VILELA

Senior Civil Engineer
Structural analysis specialist

Brazilian.

Rio de Janeiro, RJ

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EDUCATION

- Fluminense Federal University - UFF
Master's Degree in Structural Analysis – May, 2016.
Theme: Study of foundations in reinforced concrete plate.
 - Federal University of Pernambuco - UFPE Civil Engineering, 1988.
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QUALIFICATIONS

- Large experience in structural analysis for concrete structures on the refinery segment of the petrochemical industry: analysis, design and detailing of reinforced concrete structures.
 - Experienced in structural modelling with the following analysis software: GTSTRUDL, SAP90, STAAD3, Robot Millenium, PanelPlus (INDUCTA), and others;
 - Skilled and experienced in coordinating groups of professionals from different backgrounds;
 - Skilled in analysis of interfaces in multi-disciplinary projects.
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PROFESSIONAL EXPERIENCE

SCIENS ASSOCIATED CONSULTANTS LTD - 2016 current

Consulting company for preparation, planning and management of construction projects.

Role: Senior Civil Engineer / CTO

MAIN ATTRIBUTIONS:

- Technician responsible for the preparation, planning and project management;

- Coordination of multidisciplinary projects;
 - Analysis of interfaces, compatibility and consistency checking in multidisciplinary;
 - Responsible for research and technical solutions;
 - Coordination and validation of projects;
 - Interface with customers;
 - Supervision of activities on construction site;
 - Administrative councillor.
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GERCON - Mar / 2014 to Mar / 2015

Construction company specializing in industrial buildings

Role: Senior Civil Engineer

MAIN ATTRIBUTIONS:

- Project management;
 - Coordination of multidisciplinary projects in large industrial buildings;
 - Analysis of interfaces, compatibility and consistency;
 - Analysis of the technical solutions adopted;
 - Coordination and validation of projects;
 - Interface with customers.
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YES TILT UP - (Jan - Aug / 2013)

Consulting and construction company specializing in precast industrial buildings.

Role: Senior Civil Engineer – Job Leader of the structure area.

MAIN ATTRIBUTIONS:

- Consultant on projects for the tilt-up construction system.
- Analysis, design and detailing of precast walls for the service of lifting loads.
- Leader of the project team. Checker of documents (plans, calculation memory, etc.) and analysis of the interface between the other projects.

PLANAVE ESTUDOS E PROJETOS DE ENGENHARIA S/A – (Feb / 2012 – Jan /2013)

Engineering consulting company specializing in onshore and offshore infrastructure, with emphasis on port and energy sectors.

ROLE: Senior Civil Engineer – Job leader

COMPERJ

- Street layout and rainwater design, contaminated and oily drainages of the Petrochemical Complex of Rio de Janeiro.

MAIN ATTRIBUTIONS:

- *Job leader* of Structures area;
- Responsible for the calculation and detailing of civil structures of the drainage project off site;
- Responsible for technical and administrative interface with the customer.

EXACTUM CONSULTORIA E PROJETOS LTDA – (Out / 2008 Feb / 2012)

Company specialized in projects for the petrochemical industry (onshore and offshore).

ROLE: Senior Civil Engineer

MAIN ATTRIBUTIONS:

COMPERJ - Petrochemical Complex of Rio de Janeiro

- Verification and design of concrete structures and FEED design of the foundations of COMPERJ of COMPERJ units: U2400; U2600; U3500; U-3410; U3420; U3430; U3440; U3450; U3460; U3470; U3480; U3110; U3120; U4710; U3400; U3550; U3200; U4100; U3600; e U4730.
- Structural analysis with finite element modelling using the GTSTRUDL software: pipe racks; bases for towers; heat exchangers, vertical and horizontal vessels, transformers and containment basins.
- Design of foundations for equipment subject to vibration requests.

SNOx - Northeast Abreu e Lima Refinery

- Emission Chilling Units SNOx I and II: Checker of concrete structures for the pipelines of the units U-93 and U-94 (GTSTRUDL) detailing project.
- Checker of memories and projects of the bases for equipment, vessels, heat exchangers and chimneys. Proposal for optimization of reinforcement. Interface analysis of Pipelines and Civil areas.

RNEST - Northeast Abreu e Lima Refinery

- UDA, UCR, NAFTA, UGH e HDT units. Design and analysis of steel structures of pipe racks, preparation of calculation memories.

UN-BA - Bahia Business Unit Project

- Design and detailing of the bases for vertical vessels and glycerine leak containment basins.

MIRANGA - BA - Experimental Core Project CO2

- Design and detailing of bases for vertical vessels, pipe rack in reinforced concrete.

BIEB INGÉNIERIE - (2007-2008)

French consulting company for projects for residential and commercial buildings, built in the Department of Martinique.

ROLE: Senior Civil Engineer

MAIN ATTRIBUTIONS:

- Responsible for the calculation and dimensioning of elements in reinforced concrete and self-supporting walls, according to the BAEL / 91 norm; Development of appropriate construction details for the seismic standards of the Department of Martinique.

SIAGRI SISTEMAS DE GESTÃO LTD (2005 - 2007)

Software house for the agribusiness management.

ROLE: Civil Engineer / Construction Manager

MAIN ATTRIBUTIONS:

- General manager; responsible for budgeting and physical / financial schedule; development of the economic viability of the project.
 - Preparation of manuals for preventive building maintenance program.
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WATCHTOWER BIBLE SOCIETY (1989 - 2005)

Philanthropic institution of the education segment

ROLE: Civil Engineer

MAIN ATTRIBUTIONS:

- Responsible for the analysis of soil probing and foundation system choice, retaining walls calculations, precast slabs, flat slabs, precast walls;
 - Dimensioning of tilt-up for superstructures and foundations;
 - Adequacy of structures to ACI standard for seismic load requests;
 - Responsible for the technical feasibility analysis and for choosing the adequate constructive system, whether conventional or tilt-up.
 - Responsible for harmonizing interfaces in multidisciplinary projects.
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LANGUAGES

- English – advanced.
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COURSES

UFF – 2012

Seminar on dynamic analysis in foundations.

ABACUS ENGINEERING – 2011

SAP 2000 - Module I - Cross linked structures.

COPPE / UFRJ - 2011 (Offshore Continuing Education Laboratory)

VIBRA - Vibration of equipment in offshore structures.

ABACUS ENGINEERING – 2009

Course on submarine pipelines.

COPPE / UFRJ - 2009 (Offshore Continuing Education Laboratory)

Sea Production and Exploration of Oil.

IMPORTANT

Familiar with the following technical standards:

- ABNTs;
- ACI;
- BAEL / 91;
- PETROBRAS STANDARDS