

John Windus

SUMMARY OF QUALIFICATIONS

Twenty-eight years of offshore construction and civil engineering experience, including twenty years of experience in marine projects and eight years of work in onshore civil engineering. Marine experience includes analysis, design, fabrication and installation of TLP's, fixed platforms, spars, FPSO's, semi-submersibles, construction vessels and the development of non-conventional solutions for offshore oil and gas production installations. Skills include hydrostatic and dynamic analysis, stability, kinematics, mooring, structural analysis and design and management, both project and corporate.

EDUCATION

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| <i>1980</i> | B.S. Ocean Engineering (with Honors)
Florida Atlantic University
Boca Raton, Florida |
| <i>1978</i> | B.S. Civil Technology Empire State College (SUNY) Rochester, New York |
| <i>1970</i> | Drafting Certificate (2 yr.) in Architectural, Mechanical, Civil and Electrical Drafting
Alfred State College (SUNY), Alfred, New York |

PROFESSIONAL EXPERIENCE

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| <i>1999 - 2000</i> | Vice President, Ultramarine Systems, Inc. Houston, Texas <ul style="list-style-type: none">◇ Dynamic analysis of the floating Hood Canal Bridge in Seattle, Washington. The analysis included seakeeping, mooring and dynamic structural analysis of a multi-body system representing a 7,869-foot long floating bridge.◇ Installation analysis for a 200 foot water depth tripod.◇ Project Manager for unique highway bridge installation project in Chiapas, Mexico. Project entails using offshore construction and installation techniques to solve cost constraint problems in a remote location.◇ Development of a purpose built lift system to install pile cap beams for a dry dock Land Level Transfer Facility for Bath Iron Works Shipyard. |
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The lift system is required to operate in shallow water with a significant tide range.

1996 - 1999

Vice President and General Manager, Barnett & Casbarian, Inc. Houston, Texas

- ◇ Responsible for operation of the Houston office. Direction and management of design engineering, naval architecture, quality assurance activities including US Mineral Management Service certified verification and warranty marine surveying along with office administration.
- ◇ Project Manager, Marine Surveyor and Consultant for Exxon's DIANA Deep Draft Caisson Vessel.
- ◇ Concept design and detailed development of a unique system for removing and replacing the spud cans on Global Marine, Inc.'s Labrador Jack-Up Drilling Rig in a remote location outside a vessel repair facility.
- ◇ Project Manager, Marine Surveyor and Certified Verification Agent for Chevron's GENESIS spar platform.
- ◇ Project Manager for Global Industries' Hercules Pipelay Barge Conversion. Detailed engineering for Atlantic Marine, Inc. and Alabama Shipyard, Inc. for the vessel lengthening and Forecastle house construction. Work included preparing shipyard drawings for steel and piping fabrication.
- ◇ Project Manager, Marine Surveyor, Consultant and Certified Verification Agent for Shell's URSA TLP platform.
- ◇ Project Manager, Marine Surveyor, Consultant and Certified Verification Agent for Elf's VIRGO platform.
- ◇ Marine Surveyor, Consultant and Certified Verification Agent for Amerada Hess's Baldpate Compliant Tower platform.
- ◇ Project Manager, Marine Surveyor, Consultant and Certified Verification Agent for Shell's SPIRIT platform.
- ◇ Marine Surveyor, Consultant and CVA for Shell's RAM/POWELL TLP platform.
- ◇ Marine Surveyor, Consultant and Certified Verification Agent for Shell's MARS TLP platform.

1984 - 1996

Senior Section Leader, Naval Architecture, Hudson Engineering, Inc. (McDermott) Houston, Texas

- ◇ Managed and supervised efforts of marine design teams. Responsible for marine engineering software and design methodologies used by department. Managed and administered a UNIX based computer network.

- ◇ Project Engineer for design of a 20-well drilling and production Spar for Chevron U.S.A., GOM, Green Canyon 205 in 2590 ft. of water depth. Responsible for marine analysis, mooring analysis, project supervision, forecasting and cost estimating.
- ◇ Project Manager for preliminary design of a Spar for Amerada Hess's Baldpate project, GOM Garden Banks 260 in 1655 ft. of water depth. Responsible for marine analysis, risers analysis, hull structure design and cost estimate.
- ◇ Conceptual design of a Truss-Spar concept for deepwater development.
- ◇ Conceptual design of installation mooring system using active tugboats and the DB 50's mooring and dynamic positioning capabilities for Shell's Ram/Powell TLP.
- ◇ Seakeeping and stability analysis of semi-submersible offshore heavy lift vessel concept. Design, construction and testing of scaled model of the concept
- ◇ Installation engineering, Exxon Alabaster Platform, Mississippi Canyon 397A, 486 ft water depth.
- ◇ Conceptual design of installation mooring system for Shell's Mars TLP.
- ◇ Towing and maneuvering studies for Shell's AUGER TLP. Analysis and design for the transportation of the hull, deck, and mated superstructure in the Gulf of Mexico and into and out of the port of Freeport, Texas. Project site supervision and consultation for both the hull to deck mating and the tension tendon installation.
- ◇ Design and fabrication engineering of BP Exploration's Pompano, Viosca Knoll 989 platform in 1,285 ft water depth, including launch analysis of articulated launch barge. Supervision of loadout operations of jacket structure onto the Heerema H851 Launch Barge.
- ◇ Design, fabrication and installation engineering of BP Exploration's Mississippi Canyon 109 platform in 1,020 ft water depth onsite supervision of launch and upending.
- ◇ Installation engineering, Texaco Tick Platform, Garden Banks 189A, 720 ft water depth.
- ◇ Naval architect for analysis and design of a 12-leg spread mooring for Amoco Yombo tanker-based FPSO unit. Performed frequency domain quasi-static analysis and time-domain mooring analysis, including technical and financial management of model testing. Also supervised structural interfaces with process facilities.
- ◇ Seakeeping and 2-body mooring analysis of Amoco's semi-submersible/tanker barge extended well-test system in 1,000 ft water depth, including supervising system model testing.

- ◇ Installation of subsea drilling template of Conoco's TLWP Joliet Project in 1,760 ft water depth, including offshore supervision of marine installation. This included launch, flotation of the template, and keelhauling under the John Shaw SSDV.
- ◇ Design and installation engineering, SOHIO's Snapper Platform, 860 ft water depth, East Breaks 165, including operational planning and offshore supervision of marine installation.
- ◇ Consulting naval architect for seakeeping and seafastening analysis for transatlantic transportation of Chevron's Takula ALP Deck. Work included model testing and an inclining experiment.
- ◇ Lead engineer and naval architect for transportation analysis of Exxon's 3,100 ft water depth compliant tower and articulated launch barge.
- ◇ Naval architect for flotation and upending study of Marathon's self-floating Steelhead Platform, Cook Inlet, Alaska.
- ◇ Analyst for parametric study of stability for transportation of Shell's Bullwinkle jacket on articulated launch barge
- ◇ Naval architect for installation engineering required for production and drilling platforms for the ARCO's Coal Oil Point Project.

1981 - 1984

Project Engineer, Raymond International, Inc. Houston, Texas

Engineering support for offshore platform construction. Work also included design, analysis, mooring, and construction of vessels involved in offshore exploration and construction.

1980 - 1981

Associate Engineer, Fluor Ocean Services, Inc. Houston, Texas

Analyzed and designed offshore and onshore projects. Specific experience includes detailed engineering checks of a platform deck optimization study, project survey grid layout and general earthwork for a crude oil terminal, wave refraction and shoaling study for a marine terminal, detailed design and computer analysis of berthing and mooring structures of an LNG marine terminal, and dock utilization study for an existing crude oil terminal.

1975 - 1978

Senior Engineering Technician (Department of Environmental Conservation), State of New York Olean, New York

Inspected onsite drilling, production, and well-plugging operations in natural gas and oil fields to ensure compliance with environmental laws and regulations.

1970 - 1975

Engineering Technician (Department of Transportation), State of New York Rochester, New York

Survey, design, and construction engineering for rural and urban highways within New York State.

COMPUTER SOFTWARE CAPABILITIES

MOSES, MAESTRO, FASTSHIP, Rhinoceros, AutoCAD, MathCAD, Microsoft Office 2000 and Microsoft Project.

ADDITIONAL PROFESSIONAL ACTIVITIES

American Petroleum Institutes Hull Structures Resource Group, American Petroleum Institutes FPSO Task Group

PATENTS AND PUBLICATIONS

"An Economical Pile-Handling Technique Using Dynamic Upend", with R. Converse, S. Bhattacharjee, and J. Chen, Offshore Technology Conference, 1990, paper OTC 6379. "Jacket Installation Design Criteria", with R. Gair, T. Mills and S. Bhattacharjee, The Second Offshore Symposium, The Society of Naval Architects and Marine Engineers, 1991, pp. XVII-1 - XVII-9.

PROFESSIONAL MEMBERSHIPS

Society of Naval Architects and Marine Engineers Marine Technology Society

AWARDS RECEIVED

Florida Atlantic University, College of Engineering, 1980 Award for Outstanding Academic Achievement.