

Sachin Kumar Naval Architect/Structural Engineer

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ENTERPRISING, HARD-WORKING AND TECHNICALLY SKILLED NAVAL ARCHITECT known for accuracy, attention to detail and timeliness in managing challenging tasks in maritime industry.

QUALIFICATION

- **Bachelor in Technology** in Naval Architecture and Ship Building 2011 - **73%**.
- **Certificate:** Japanese language (ability to read write and basic conversation).
- **Certificate:** Computer Aided Design & Drafting in AUTOCAD with **Excellent** Grade.
- **Hands on experience** of Moses, GT-Strudl, Orcaflex, Strand7, SACS, Autohydro

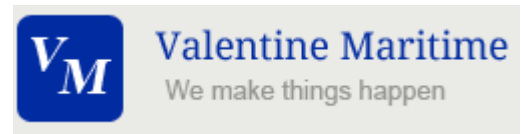
PROFESSIONAL PROFILE

2014 June – Till Date - Valentine Maritime Gulf LLC, Abu Dhabi U.A.E- Structural Engineer

- Transportation and Sea fastening analysis during load out / offloading, transportation, launching, installation of jacket, decks, Line pipes, etc.
- Mooring Analysis of vessel for installation of structures and during Pipelay.
- Structural design calculations to class requirements in support of vessel upgrades and modifications.
- Provide input to Estimation / Proposal Dept. in preparing bid documents that require technical input.
- Prepare / Review Material Specification and perform technical evaluations of MTO.
- Liaison with client, subcontractors & Supplier through HoE or project team on engineering matters of his discipline.

Major projects (Valentine Maritime Gulf Ltd, U.A.E)

- ◆ SARB (Satah Al Razboot) Package 3 EPC Work for ADMA-OPCO
 - Jib Hoist Structural Design for DP Buoy lifting
 - Calculations for Subsea lowering operations
 - Bend restrictor cable cradle Design for cable laying
 - Structural Design of Temporary Working Platform for Jacket
- ◆ Al Shaheen Field – 24" Water Injection Pipeline for Maersk Oil Qatar,
 - H-Frame structural integrity check for gooseneck support
 - Clamp Design for pipelines/Davit Lifting
 - Pile drivability study for bid projects
 - Padeye Design for shore pull and various lifting operations



2013 Jan – 2014 May– Drydocks World Dubai – Naval Architect & Marine operation Engineer
Basic design – Engineering/Structural Department -

Project: DOLWIN-2-Offshore wind power semisubmersible platform, Client: Tennet, Aibel AS, ABB

- Mooring calculations for semi submersible, Barge with topside.
- Prepared Marine operation procedure & Deck mating procedure.
- Heavy lift calculations for fabricated modules.
- Outfitting structural design and analysis (Foundations, Pipe racks, Cable trays etc)
- Track progress for Strand Jack tower installation, civil construction & report in client's weekly meetings
- Liaising with heavy lift specialist, civil contractor, MWS, Marine Department & Project team
- Stability check of grand blocks during floatover and towing.
- Preparation and checking of outfit drawings
- Yard technical and onsite support



Production Control Department

Project: Repair of Jackup rigs Client: NDC Abudhabi & COSL Singapore

- Liaising with project team, class surveyor, MWS, and client for scope of rig repair works and document approval
- Drill floor securing & substructure analysis
- Conducting inclining experiment after major maintenance of ships and rigs.
- Review of design documents for new helideck installation, Lifeboat davit relocation, and repair sequences.

2011 July – 2012 Dec – Technomak Offshore and Marine Consultancy, U.A.E – Jr. Naval Architect

- Job responsibilities included
 - Intact and damage stability analysis of ships and floating structures
 - Lifting and rigging analysis of Jackets/Modules
 - Transportation and sea-fastening analysis
 - Structural analysis of offshore structures
 - Inclining experiment and deadweight survey
 - Barge upgrade feasibility studies
 - Preparation of fabrication drawings
 - Mooring and riser installation analysis
 - Liaise with classification societies and clients
- Project handled at Technomak :-
 - Sea-fastening and transportation analysis of Deck Cargo Barges for load out activities, (Lashing, Braces, Stanchions, Grillage design, Barge Local Strength checks) for Leighton Offshore/Oceanic Marine/Punj Lloyd
 - Emergency Gen. room design, Inplace analysis, Vessel underdeck strengthening, Lifting analysis for DD World
 - Seakeeping analysis of Platform supply vessels & Windfarm transportation Barge for Burness Corlett Three Quays Southampton.
 - Mooring analysis and anchor pattern arrangement of "Crane lift barges for SSVM and PLEM installation" by Leighton Offshore Pte Ltd.
 - Inclining experiment of Jackup Rigs for MIS Sharjah & NKOM Qatar.
 - Cable Tank Design, Seafstening & Transportation for Leighton Offshore Pte Ltd.
 - MTO preparation and pipe crossing detail analysis of UMM LULU & AL NASR pipelay for Technip.
 - SPD23/24 Jackets Transportation and rigging design analysis for Oceanic Marine.
 - SPD14 jackets flotation and upending analysis including lifting and rigging for the same for Oceanic Marine.



Contd.

- Spreader bar frame design for wheel house/Shale shaker module lifting for Van OOrd/Lamprell/DD World
- Gangway structural strength check and lifting analysis for Oceanic Marine.
- Fastening analysis of calm buoy with subsea hose bottom section for Leighton offshore
- Helideck strength Check for Jackup project solutions Sharjah
- Pile hangoff frame design and deck strength check for its operation.

Aug 16-18 2010 Naval Science and Technological Laboratory (NSTL), Vizag

- Visited state of the art facilities like high speed towing tank, Wind tunnel and Cavitation Tunnel.
- Witnessed live experiment in high speed towing tank for determination of resistance of a model and its extrapolation for ships and submerged vessels.

May-Jun 2010 Aryatech Marine & Offshore Service Pvt. Ltd, Delhi

- Successfully completed internship in the company and gone through a month long tutoring in use of Orcaflex, renowned software used in dynamic analysis of risers, moorings and towed systems.
- Acquired basic knowledge of the offshore field and the introduction to the basic offshore structures.
- Learnt modeling of offshore systems with the help of Orcaflex.
- Acquired basic knowledge of the Computational Fluid Dynamics (CFD).

May – Jun 2009 Mech Marine Engineers Private Limited, Mumbai

- Successfully completed six weeks of training in the design office of company and learnt various intricacies of design process and cost estimation.
- Stayed in the shipyard and gathered firsthand experience of ship production process and facilities
- Got to know the functioning of a corporate entity.
- Prepared equipment list and learnt basics of production design/drawing for a 40 m Utility Vessel

May – Jun 2008 Department of Ship Technology (CUSAT) & Hindustan Machine Tools, Cochin

- Designing and modeling in various manufacturing shops such as fitting, carpentry, foundry, sheet metal, lathe, shaping machine, drilling and boring machine
- Gained practical experience of various welding processes such as gas welding, manual metal arc welding, electro slag welding, Inert gas welding, Plasma arc welding & gas cutting.

SPONSORED PROJECTS

- UGC SAP sponsored project of heel sensor and correction device for small boats in back waters of Kerala under the guidance of Mrs. Mariamma Chacko.
- Successfully completed preliminary design & got selected for 1st all India AUV project competition at NIOT Chennai

ACADEMIC PROJECTS AND SEMINAR

- Completed final year major project of preliminary design of a drill ship of 4500 feet rated water depth.
- Developed a computer program in Visual Basic for fixing of main dimension of DWT carrier ships, significantly reducing the man-hours required to iterate the same.
- Presented a seminar on assembly of shell plating to improve the overall productivity of a shipyard, created a decision support system & program of same for Welder Qualification.
- Presented prize winning business plans on improvement of Nilambur As Tourist Spot & Water Sports In Kerala.

POSITIONS OF RESPONSIBILITY

- Mess auditor of Siberia hostel 2009-10; emphasized on digitalization of mess activities.
- Auditor of “Shipstechnic” annual technical journal of Society of Naval Architecture Students
- Actively participated in organizing various events at school, college and hostel being part & leader of committees.
- Class representative and student project coordinator at college.

PROFESSIONAL MEMBERSHIP

- Member of Royal Institution of Naval Architects.
- Active member of Society of Naval Architecture Students, at Dept. of Ship Technology, CUSAT
- Student Member of Institution of Naval Architects, Mumbai India

SOFTWARE EXPERIENCE

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|---------------------------------|-------------------------------|
| ▪ MOSES – (proficient) | ▪ Microsoft Word (proficient) |
| ▪ GT Strudl – (proficient) | ▪ STAAD.Pro – (intermediate) |
| ▪ SACS – (Beginner) | ▪ MathCAD – (intermediate) |
| ▪ OrcaFlex – (Intermediate) | ▪ AutoCAD – (Proficient) |
| ▪ OFFPIPE – (basic familiarity) | |

REFERENCES

- ▶ Dr. Elchin Huseynli, Engineering Manager, Valentine Maritime Gulf L.L.C (+971-561751120), elchin_huseyn@yahoo.com
- ▶ Rajesh Ramchandran, Principal Naval Architect, McDermott UAE (+971-509105675), Rramchandran2@mcdermott.com
- ▶ Mr. Vishak Gopi, Asst. Engineering Manager, Technomak Offshore and Marine consultancy, Sharjah, (+971-552100966)