



CURRICULUM VITAE

Gilmark Vaskit D Mello, CEng, CMarEng, REnvP **Consultant Marine Engineer**

Contact Details

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An experienced marine engineer with 20 years of sea-going experience, including 9 years experience as Chief Engineer on a diverse range of vessels including large container ships, gas carriers, bulk carriers, general cargo ships and passenger ferries. An experienced marine consultant engineer having a broad maritime expertise encompassing technical expertise, maritime standards, risk management, technical failure and accident investigation and maritime decarbonisation.

Qualifications:

- Chartered Marine Engineer (CEng, CMarEng).
- Class 1 Certificate of Competency – Motor (Unlimited) (High Voltage endorsement).
- Registered Environmental Practitioner (REnvP).
- Lead Auditor CQI – IRCA Certified ISO 9001:2015 (Quality), ISO 14001:2015 (Environmental) and ISO 45001:2018 (Occupational Health and Safety).
- Certified ISM Internal Auditor
- Certified Designated Person Ashore.
- Bachelor of Engineering (Mechanical).
- Post Graduate in Marine Engineering.
- Professional Certificate in Clean Power.
- Certificate in Forensic Engineering Learning from failures.
- Safety Officer training – Risk Assessment and Incident Investigation.
- Certificate in Maritime Resource Management.
- Certified Ship Security Officer (SSO).

Key Skills and Experience:

- Propulsion plants ranging from 10000 - 62000 KW including MAN B&W (MC & ME), Wartsila and Pielstik engines, Auxiliary engines ranging from 300-4500 KW including Daihatsu, MAN B&W, Himsen and Yanmar engines and high voltage systems up to 6.6 KV.
- Auxiliary equipment including composite boilers, economisers, shaft generators, thrusters, ballast water treatment systems, inert gas generators, reliquefaction plants and deck machinery.
- Drydocking of vessels including preparation of drydock specifications.
- Hot and cold layup of vessels.
- Retrofitting and commissioning of equipment onboard ships.
- Incident, accident and technical failure investigation, and root cause analysis.

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- Risk assessment of operational processes.
 - Safety, Environmental and ISM audits.
 - Optimisation of procedures and workflows for operational reliability and regulatory compliance through risk identification, evaluation and mitigation.
 - Vessel vulnerability assessment for safety and environmental compliance.
 - Assessment of human factors in equipment design, ergonomics and operations.
 - Development of Environmental Management Plans and Environmental Management Systems (ISO 14001).
 - Subject Matter Expert in alternative fuels – Methanol, Ammonia and Hydrogen, and Onboard Carbon Capture Systems (OCCS).

APPOINTMENTS and RESPONSIBILITIES

TMC Marine Consultants Ltd, London, UK
Consultant Marine Engineer

2024 - Present

Key Responsibilities and Achievements

- Maritime incident and accident investigation.
- Ship condition surveys and inspection.
- Ship damage survey and repair investigation.
- Bunker quality/quantity disputes.
- Technical failure investigation and root cause analysis.
- Ship performance disputes investigation.
- Main engine damage investigation.
- Auxiliary engine damage investigation.
- Auxiliary boiler and economiser damage investigation.
- Stern tube failure investigation.
- Steering gear failure investigation.
- Fire incident investigation.
- Risk assessment of technical operations.
- Operational process optimisation.
- Ship environmental compliance inspection.
- Safety Management System (SMS) audits.
- Environmental Management System (EMS)(ISO 14001:2015) audits.
- Development of Environmental Management Systems (ISO 14001:2015)
- Vessel environmental compliance vulnerability assessment.
- Development and/or review of Biofouling Management Plans (BFMP), Bunkering Plans, Ship Environmental Compliance Plans and Voluntary Environmental Compliance Plans (VECP)
- Subject Matter Expert in alternative fuels – Methanol, Ammonia and Hydrogen, and Onboard Carbon Capture Systems (OCCS).
- Subject Matter Expert on seafarer training and competency requirements in alternative fuels – Methanol, Ammonia and Hydrogen



Lloyds Register, London
Senior Sustainability Specialist

2023-2024

Key Responsibilities and Achievements

In the role of Senior Sustainability Specialist, I have focused on

- Providing technical expertise in maritime decarbonisation including the safety aspects of the deployment of alternative fuels and in meeting the regulatory framework.
- Engagement with stakeholders in the maritime industry including ship owners and ship managers on safe deployment of carbon capture and alternative fuels.
- Undertaken projects for maritime clients providing advisory services on low-carbon alternative fuels, onboard carbon capture systems, regulatory compliance and emission verification.
- Authored reports and delivered presentations on studies involving multidisciplinary expert working groups on alternative fuels and onboard carbon capture systems.
- Lead author for the study on industry paper on “Guidelines to develop and implement a safety management system for alternative fuels on board ships”
- Co-author and study lead on industry study on “Concept study to offload onboard captured CO₂).
- Lead on the study of the feasibility of installation of Onboard Carbon Capture System on board a large container ship commissioned by a shipowner.
- Subject Matter Expert within the core working group in developing the requirements training and competency standards for seafarers on alternative-fuelled ships.
- Reviewed and provided recommendations for Biofouling Management Plans and Bunkering Plans for clients.
- Consulted as a subject matter expert on evolving environmental regulations including preparing the consultation response for a leading marine industry body on Vessel Incidental Discharge Act (VIDA) poised to replace the Vessel General Permit (VGP).

Uber Boat by Thames Clippers , London
Health, Safety, Quality and Environment (HSQE) Manager

2021-2023

Key Responsibilities and Achievements

In the role of HSEQ Manager, I have focused on:

- Management and development of the Safety Management System (SMS) of High-Speed Passenger Craft (HSC Code).
- Investigation of incidents, accidents and technical failures, root cause analysis and preparation of investigation reports.
- Risk anticipation, risk analysis and mitigation of vessels and shoreside assets including piers, engineering facility and drydock facility.
- Facilitation of flag inspections and surveys of vessels.



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- Development and optimising of operational procedures through risk anticipation and learning from failures.
 - Development and implementation of the Environmental Management System (EMS) (ISO 14001 standard) for the organisation.
 - Internal and external audit management of the Safety Management System (SMS) and Environmental Management System (EMS).
 - Developing operational standards, procedures and checklists for safe operations, energy efficiency, and regulatory compliance.
 - Development and implementation of Risk Register for the company business functions and providing training to departments.
 - Development and implementation of the process for carbon accounting, and the establishment of the sustainability metrics encompassing the business activities.
 - Implementation and monitoring of plans for transitioning to zero tailpipe emissions to achieve the net zero target.

**Seaspan Ship Management, Vancouver
Consultant, Business Transformation**

2020-2021

Key Responsibilities and Achievements

In the role of Consultant, Business Transformation I focussed on:

- Development/optimisation of procedures and maintenance workflows to ensure reliability, safe operations and loss prevention.
- Development of process flows within the system to mitigate human errors that can lead to delays in maintenance and inspection activities.
- Development of mitigations through procedural changes and system barriers for identified system vulnerabilities to prevent recurrence.
- Integration of the planned maintenance activities with procurement & inventory management adapting the "just-in-time" principle.
- Developed new & optimized existing process flows in risk management, procurement and maintenance activities.
- Writing technical procedures, guidelines and checklists for operational processes.

**Seaspan Ship Management / Wallem Ship Management
Chief Engineer**

2011-2020

Key Responsibilities and Achievements

- Chief Engineer in charge of managing the overall technical operation, preventive & planned maintenance, energy management, environmental compliance, and managing the engineering staff in a fast-paced and time-bound environment.

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Consultant Marine Engineer



Dockendale Shipping / Varun Shipping / Seaspans Ship Management
Marine Engineer

2000-2011

Key Responsibilities and Achievements

Joined as a Trainee Marine Engineer in the year 2000 and progressed through the ranks to be promoted in the year 2011.

MEMBERSHIPS:

- Member- Institute of Marine Engineering, Science and Technology (IMarEST).
- Member - Institute of Environmental Management & Assessment (IEMA).