



CONSULT MARITIME

MARINE & OFFSHORE CONSULTANCY



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Hoboken, New Jersey, USA

AYMAN ALAKKAWI

Consulting Marine Engineer & Safety Expert

SUMMARY

Ayman Alakkawi is a Chief Marine Engineer and Chartered Marine Engineer (CEng, UK) with over 23 years of global experience in the Maritime, Offshore Oil & Gas, and Renewable Energy sectors. He is the Founder and President of Consult Maritime LLC, an independent maritime consultancy based in the New York Metropolitan Area, serving clients across North America and internationally.

Ayman is a recognized expert in marine engineering, vessel integrity, regulatory compliance, and accident investigation, with a distinguished record of conducting over 900 vessel inspections and audits worldwide. His expertise spans casualty investigations, failure analysis, and LNG/Dual Fuel Vessel Design & Operation, positioning him as a trusted expert witness in complex technical disputes. As a consulting marine engineer, Ayman has investigated a wide range of hull and machinery cases, including damage to main and auxiliary engines (low-speed, medium-speed motors), hull casualties (cargo holds explosions), shipboard fires, and grounding. His experience includes both commercial and luxury vessels, and he routinely delivers training and technical supports for shipping companies providing deep insight into operational failures and engineering risks.

His career bridges shipboard engineering as a chief marine engineer, academic leadership, and regulatory consulting, including class surveyor roles with Lloyd's Register, Technical Director with the Liberian Ship Registry, and Assistant Professor of marine engineering with SUNY Maritime College. He has led initiatives in LNG and dual-fuel vessel compliance, drydock project management, and alternative energy integration, and has authored professional training programs for Lloyd's Maritime Academy.

Ayman brings a wealth of knowledge having worked on behalf of Class and Flag for all commercial vessels including large Passenger Cruise vessels and Super Yachts, he is certified in ISM, ISPS, MLC, eCMID, and LNG/Dual Fuel technologies, and regularly conducts audits (QHSE), feasibility studies, and engineering evaluations for oil/chemical tankers, gas carriers, bulk carriers, containerships, and offshore vessels.

He is a Fellow of the Royal Institution of Naval Architects (RINA), a Member of the Institute of Marine Engineering, Science and Technology (IMarEST), and a Member of the International Institute of Marine Surveying (IIMS), where he also serves on the Professional Assessment Committee, in addition a member at the American Society of Mechanical Engineers (ASME)



SKILLS

- Marine Surveys and Audits.
- Marine Assurance & DP
- Flag State Inspections.
- Accident Investigation
- USCG PSC Inspections
- Marine Engineering & Naval Architecture
- LNG/Dual Fuel/Alternative Fuel
- Regulatory Compliance

PROFESSIONAL LICENSING

- Chief Marine Engineer (unlimited)
- DG endorsement (oil/chemical)
- ISM/ISPS/MLC Lead Auditor
- Chartered Engineer CEng. (U.K.)
- Chartered Marine Engineer
- IMO Accident Investigation
- IMCA eCMID Inspection

EDUCATION

- MSc Engineering & Management - Marine Engineering.
- P.G Diploma Naval Architecture & Offshore Engineering
- Marine Engineering Studies STCW
- B. Eng. Mechanical Power Engineering.

TRAINING COURSES

- ASNT NDT Level II
- Flag State Inspector
- ISM/ISPS/MLC Lead Auditor
- IHM Expert Course
- Lloyd's Register Class Surveyor
- IMO Accident Investigation
- USCG Gas Carriers / Dual Fuel Inspector Training
- VSO/CSO/Terminal Security Training
- Oil Tanker/Chemical Tanker advanced training
- ISO 9001/14001/45001/50001 Lead Auditor
- Marine Engineering Design

CAREER SUMMARY

Managing Director, Consult Maritime LLC, USA	2016 - Present
Senior Marine Engineer, ABL USA Inc., USA	2024- 2025
Director/Regional Compliance Manager, LISCR, USA	2022 - 2024
Marine & Offshore Surveyor, Lloyd's Register, USA	2020-2021
Assistant Professor Marine Technology, SUNY Maritime College, USA	2015-2022
Director - LNG Center of Excellence, SUNY Maritime College, USA	2018-2020
Course Director - Lloyd's Maritime Academy - U.K	2014-2025
Senior Engineering Lecturer, UTT, Trinidad & Tobago	2012-2014
Marine Engineer Officer to Chief Marine Engineer, Merchant Navy	2002-2012

WORK EXPERIENCE

LNG / Alternative Fuel Vessel Design & Compliance

- Developed Gas Carriers and dual fueled vessel inspection program for the Liberian Registry.
- Represented the Liberian Maritime Administration at the International Maritime Organization (IMO) for working groups focused on the international standard for ships operating with gas or low-flashpoint liquids as fuel (IGF Code), and the International Code of the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code).
- Reviewed designs, risk plans (HAZID/HAZOP), and alternative compliance arrangements for issuing exemptions and equivalencies for LNG/Dual Fuel Vessel, alternative fuel and decarbonization projects.
- Developed training courses for LNG fueled vessels design/operation and LNG bunkering.

Marine Surveys & Inspections

- 300+ Flag State Safety Inspections for different vessels (car carriers, oil tanker, chemical and product carriers, LPG/LNG, containerships and bulk carriers)
- 200+ class, statutory and damage surveys conducted on different kinds of vessel (annual, intermediate and renewal surveys)
- 100+ condition and pre-purchase surveys
- 100+ ISM/ISPS/MLC/QHSE/Misc. audits

Marine Assurance

- eCMID inspections of AHTS, OSV, Small Workboats, seismic vessels, and tugboats (over 50 inspections)
- Provided technical guidance and compliance for the Liberian Ship Registry marine and offshore units, including drilling, construction, FLNG, FSRU, FPSO, Floating Power Plants, and Offshore Vessels.
- Suitability surveys and fit for purpose inspections of OSVs including Dynamic Positioning vessels.
- Conducted ISM/ISPS/MLC audits for various offshore vessels

QHSE & Security

- Developed Safety and Quality Management Systems, ISM, ISO 9001 & 14001 Lead Auditor and Company & Ship Security Plans, and machinery Planned Maintenance System PMS audits. Implemented environmental compliance evaluations for vessels machinery and installation compliance with Flag States requirements.
- Conducted quality control inspections and audits for material manufacturing, fabrication, construction and repairs of compliance driven engineering plants and equipment.

Maritime Education & Training

- Lectured USCG licensing approved marine engineering courses for undergraduate students (diesel engines, ship systems, engine room resource management, and engine room simulator WARTSILA TRANSAS).
- Oversaw the USCG audit of SUNY Maritime licensing program by the National Maritime Center

Casualty & Damage Investigations

- Attended a cape size bulk carrier following grounding in Norfolk, VA on behalf of Flag Administration
- Investigated propulsion plant control failure of containership in Charleston on behalf of Flag Administration
- Attended containership in Bayonne, NJ following engine room fire on behalf of Class.
- Led the investigation and post casualty of 120K bulk carrier cargo holds explosion in Baltimore
- Off-Spec bunker damage to main engine of a gas carrier
- Flooding of an LNG carrier investigation
- Azipod thruster damage for Ice Class Passenger vessel
- Mega-Yacht Hybrid Electric Propulsion failure investigation
- 80K Bulk Carrier cargo hold explosion (coal cargo) investigation in Baltimore

Expert Witness Cases

- Crew injury on board OSV Dual Fueled Vessel - representing the defendant (on going)
- Motor yacht design dispute - representing the plaintiff (on going)
- Personnel injury on board LNG carrier - representing the defendant

HONORS & AWARDS

- SUNY Maritime College President's Faculty Award for Service (2020)
- Lloyd's Maritime Academy Course Leader Badge
- Chief Marine Engineer Qualifying Exams – First Rank Award
- Kuwait Oil Tankers Company Appreciation Letter

PROFESSIONAL AFFILIATION

- Fellow, Royal Institution of Naval Architects (RINA)
- Member, Institute of Marine Engineering, Science and Technology (IMarEST)
- Member, International Institute of Marine Surveying (IIMS)
- Member, American Society of Mechanical Engineers (ASME)

PUBLIC SPEAKING

- Alternative fuel from the prospect of Liberian Flag State Administration, CMA 2023, Stanford, CT
- Containerships Fires, International Institute of Marine Surveying Conference 2023, Baltimore, MD
- LNG conference, organizer and speaker, SUNY Maritime, 2020, New York, NY