

ZACHARY TREDE

Vice President



Summary

Zachary Trede is a marine engineer holding a chief engineer unlimited and electro-technical officer certificate of competency, with 18 years in the maritime industry. He has served as a seagoing engineering officer and chief engineer onboard naval amphibious ships, ferries, offshore supply vessels, sub-sea construction vessels, semi-submersibles, and drill ships. Zachary is experienced with diesel engines, integrated diesel-electric systems, electrical systems, automation systems, dynamic positioning systems, cranes, lifting equipment, and auxiliary systems. His experience covers shipboard engineering plants, vessel dry-docking and retrofits, dynamic positioning operations, project management, and shipboard operations. He worked as an electrical engineer and as a marine assurance consultant performing inspections, audits, risk assessments, marine warranty project management, and dynamic positioning assurance in the offshore energy sector.

Areas of Technical Expertise

- Marine Engineering
- Shipboard Operations
- Electrical/Automation Systems
- Marine Diesel Engines
- Marine Surveying
- Dynamic Positioning
- Root Cause Analysis
- Cranes and Lifting Devices

Education

- Diploma with Merit in Marine Surveying, North Kent College & Lloyds Maritime Academy, 2023
- Graduate Certificate in Project Management, The Pennsylvania State University, 2021
- B.S., Marine Engineering Technology, Texas A&M Univ., 2011

Registrations & Certifications

- US Coast Guard Merchant Mariner Credential- Chief Engineer Unlimited, Electro-Technical Officer
- National Association of Marine Surveyors Certified Marine Surveyor (NAMS-CMS)
- International Marine Contractors Association (IMCA) eCMID Accredited Vessel Inspector
- International Marine Contractors Association (IMCA) Dynamic Positioning Trials and Assurance Practitioner
- Oil Companies Int'l Marine Forum (OCIMF) Accredited OVID Inspector, 2021-2025
- API RP2D Qualified Crane Inspector/Crane Operator Certifications, 2019-2023

Professional Activities

- Adjunct Member, The Maritime Law Association of the US
- Member, Houston Maritime Arbitrators Association
- Member, Marine Technology Society (MTS)

Select Project Experience

Marine Operations

US Navy, Sasebo, JP. * Sailed as Surface Warfare Officer/ Engineering Division Officer onboard two Amphibious landing ships in Southeast Asia.

Hornbeck Offshore, Worldwide. * Sailed as Chief Engineer onboard four Dynamically Positioned Multi-Purpose Support Vessels (MPSV), assistant engineer onboard 4 US Navy submarine escort vessels, 3 Offshore Support vessels, one Submarine Rescue vessel.

Seadrill, US Gulf of America. * Sailed as second engineer onboard a Dynamically Positioned Class 3 7th generation drillship.

Helix, US Gulf of America. * Sailed as First and Second engineer onboard a Dynamically Positioned Class 3 semi-submersible well intervention rig.

Texas Department of Transportation, Galveston, TX. * Sailed as Chief Engineer on 7 ferry vessels.

Marine Surveying

Austal, Mobile, AL. * Performed a suitability survey onboard a 800 ton capacity derrick crane barge in support of marine warranty scope.

Couvillon, Port Fourchon, LA. * Performed Mission critical equipment survey onboard a Multi-Purpose Support Vessel (MPSV) of 250T capacity subsea crane, 40T crane, and (2) Work Class Remote Operated Vehicles (ROV's).

Chevron, Port Fourchon, LA. * Performed Mission critical equipment survey onboard a Multi-Purpose Support Vessel (MPSV) of 250T capacity subsea crane, 40T crane, and two Work-Class Remote Operated Vehicles (ROV's).

IDWAL, Cove Point, MD. * Conducted vessel condition survey onboard a Marshall Island flagged LNG tanker vessel.

*Denotes work performed with previous employer.

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Chevron, Corpus Christi, TX, US GOA.* Inspection and FAT witness of 550T Linear Pull winch to be installed on Anchor Platform and 591T A&R Traction winch onboard Heerema Balder for suitability to connect oil well risers to Ancor Platform during commissioning of platform.

IDWAL, Wilmington, DE.* Conducted vessel pre-purchase condition survey on a Norwegian flagged Roll-On Roll-Off car carrier.

Confidential Client, Luanda, Angola.* Project Manager of survey and repair scope recommendations conducted of two Floating Production Storage and Offloading facilities (FPSO) anchored off the coast of Angola.

Marine Assurance

Beacon Offshore, Port Fourchon, LA.* Conducted equipment suitability survey and operational tests of fracking and sand systems onboard a well stimulation vessel to determine the vessel capacity to support well stimulation/fracturing for upcoming Winterfell and Shenzi projects.

Shell, US Gulf of America.* Performed OVID surveys onboard Drillships, Offshore Support Vessels, Multi-Purpose Support Vessels, Crew boats, Geotechnical Vessels.

Geodynamics, Morehead City, NC.* Wrote safety management system (SMS) for small geotechnical survey vessel operator.

Attentive Energy, Bridgeport, CT.* Performed main engine reliability study on 3 geotechnical survey vessels to evaluate gap between non inspected vessels and inspected vessels.

Chevron, Houston, TX.* Advised global marine assurance team by performing desktop reviews for three vessel cranes and moored vessel systems for assets working in west Africa.

Project Management

Subsea Seven, UK, NL, USA, Trinidad and Tobago.* Project Manager for the third-party Marine Warranty scope of a large subsea tieback project in Trinidad and Tobago for a BP well expansion campaign.

Caldwell Marine, Plattsburgh, NY.* Project manager for a DP assurance package and DPO crew for a cable lay barge on Lake Champlain in support of a major renewables energy project.

Hornbeck Offshore, Amelia, LA.* Assisted HOS as project manager after purchase of three 290 feet dynamically positioned Offshore Support Vessels from the US Maritime Administration (MARAD).

Engineering

CACI International, INC, Ocean Springs, MS.* Marine Electrical engineer for US Navy Littoral Combat Ships, Next Generation Logistic Ships, Saudi Arabian Multi-Mission Surface Combatant.

ECS Federal, Ocean Springs, MS.* Marine Engineer for NOAA operational vessel support, Class A and Class B newbuilds.

Litigation

Harvey Gulf Int'l Marine v. Magseis Fairfield, Houston, TX. Review of vessel, ROV, and survey subcontractor and equipment performance in vessel BIMCO Supplytime charter for placement of seismic Ocean Bottom Nodes for a 4D seismic survey of Chevron Jack field.

MARAD v. Motor Serv. Hugo Stamp, Orange, TX. Engineering review and expert report in insurance dispute representing defense involving a diesel engine catastrophic over speed after replacement of engine governor onboard a large government-owned logistics vessel. Conducted additional review and opinion of repair scope.

Confidential Client, USA.* Testing program execution and report as member of team which conducted independent third-party testing in support of a high-profile marine incident in the United States. Project scope covered vessel power management systems, generators, automation systems, fuel oil, navigation equipment, steering, and pneumatic systems. Traced vessel systems, executed equipment testing plan, conducted megger, polarity tests, visual, and thermographic inspections of high voltage step down transformers, breakers, and cabling.

Natchez, New Orleans, LA.* Conducted post-fire damage survey representing electrical contractor insurance underwriters after a fire onboard a steam riverboat.

Select Papers, Lectures, and Publications

"Evidence-Based Comprehensive Verification & Validation: Reporting to Demonstrate Single Fault Tolerance" 13th Dynamic Positioning Asia Conference & Exhibition, Singapore, April 2025 (co-presenter)

CONTACT

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