

ERIC ISAAC, MSc, PMP

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Client Representative, Offshore Manager, Party Chief & QC Manager: *Marine Construction/Engineering, Offshore Energy, Hydrography, Geophysical Survey, UXO Survey*

Accomplished marine professional with history of success overseeing engineering, construction and surveying projects for offshore energy, government, utility, and marine construction clients.

- Extensive experience managing delivery for marine structure, pipeline, and cable construction along with accompanying bathymetric, topographic, geophysical & geotechnical surveys.
- Advanced expertise overseeing proposal development and pricing strategy, managing cross-functional / multidisciplinary teams, and leading initiatives worth up to \$500,000 per day.
- Demonstrated skill managing multi-million-dollar revenue through skilled business development, relationship management, and sales support.

AREAS OF EXPERTISE

Marine Construction • Navigation & Positioning • ROV Operations • Survey Mapping
Data Acquisition, Processing & Charting • Crew Resource Management • Risk Management
USACE/NAVFAC/ISO 9001 Quality Management • OSHA Safety Regulations

PROJECT MANAGEMENT EXPERIENCE

Hydrographic & Land Surveys • Geophysical & Geotechnical Surveys • UXO Surveys
ROV & Dive Inspections • Surface & Sub-Surface Navigation & Positioning • Marine Construction
Marine Pipeline Installation • Marine Cable Installation • Marine Structure Installation
Vertical & Horizontal Control • Professional Survey Practice • Business Practice • Legal Principles

PROFESSIONAL EXPERIENCE

SUBSEA METRICS, Lorain, Ohio • 2001-Present <https://www.subseametrics.com>

Specialized consulting firm offering marine construction, surveying and management consulting services to marine construction, offshore energy, telecommunications, military, and government clients.

Principal: Founded and manage a marine consulting firm providing guidance, leadership, and strategic planning for complex, challenging, construction, engineering, and scientific projects often in remote locations under adverse conditions. Lead teams of up to 35 professionals while overseeing construction and engineering for marine structure, pipeline & cable installations, deep water field development, and military base development while delivering topographic, bathymetric, as built, and marine geophysical surveys utilizing ROVs, Drones, GNSS, Acoustics, LiDAR, Photogrammetry, Total Stations and Automatic Levels. Delegate operational tasks and manage crewmembers. Recognize and address hazardous situations. Establish effective team communication procedures. Oversee resource, cost & scope planning, risk mitigation, HSE and quality control. Execute vessel mobilizations, dimensional control, and both alongside and offshore calibrations. Utilizing ACAD, prepare and deliver maps, reports and presentations. Coordinate with clients, management, and teams including engineers, scientists, superintendents, marine/trade personnel and equipment operators; conducting effective communications and gaining cooperation at all levels.

Select Accomplishments:

- Fuelled over 300% revenue growth through highly effective business development and implementation of new technologies and expertise in response to market demands.
- Achieved 0 recordable injuries throughout 170,000 man-hours of project supervision.
- Identified and corrected error made by previous surveyors during large-scale construction project, saving contractor over \$1 million from profits that would have to go to make corrections.
- Directed surveying operations on projects worth from \$5,000-\$500,000 per day, ensuring project delivery within schedule, scope and budget constraints.
- Implemented consistent LBL data acquisition, quality control and analysis procedures, ensuring 100% accurate engineering measurements and calculations for pipeline spool fabrication.

Key Projects:

- Client Representative, Ordtek / TenneT; UXO 2GW Project; North Sea, Germany (2024). Responsible for supervision of offshore fieldwork for 5 nearshore export cable route UXO surveys. Ensured conformance to project specifications. Promoted HSEQ.
- Offshore Manager/Party Chief, N-Sea, Ørsted Hornsea 3 Windfarm UXO investigation, England (2024), Responsible for technical oversight of UXO investigations along export cable routes.
- Client Representative, Equinor, Beacon Wind, Metocean Buoy Deployment, Mass., USA (2021-2024). Responsible for technical oversight and QC of 5 oceanographic meteorological mooring installations and servicing. Ensured conformance to project specifications. Promoted HSEQ.
- Party Chief, Boskalis, CFXD wind turbine jacket installations offshore Taiwan (2023); Responsible for the positioning of 1200-ton jacket installations during an offshore wind development; met objectives; communicated effectively gaining cooperation at all levels.
- Client Survey Representative, Chevron, Anchor, Ballymore & Neptune Drilling Demarcation and Debris Clearance Projects, USA (2023); 4 x LBL array deployments with buoy placement.
- Client Vessel Representative, Equinor, Gullfaks/Gina Krog/Oseberg Debris Clearance & Pipeline IMR Norway (2022). Promoted HSEQ throughout project; Conducted planning, project management daily; ensured contractor compliance with project execution plan.
- Party Chief, Shell EDP Renewables, Mayflower Wind; geophysical, reconnaissance pre-engineering cable route survey; Massachusetts, USA (2019). Managed geologists, marine biologists, engineers and surveyors; ensured data quality and project safety; delivered project according to scope, schedule and budget.
- Report Coordinator, Nord Stream 2/Saipem; Nord Stream 2 Gas Pipeline reconnaissance UXO survey, Baltic Sea, Denmark (2018). Ensured conformance to project specification and HSEQ standards for pipeline route UXO survey, supervised geologists, surveyors and technicians.
- Party Chief, East Anglia One Offshore Windfarm UXO survey and clearance project, North Sea, England (2018). Oversaw surveys during UXO diver clearance; ensured conformance to project specifications; prepared reports and managed field personnel. Liaised with managers & client.
- Client Survey Representative; Total; Clov and Pazflor Development projects, Angola (2010-2014); Responsible for the technical oversight of Structure, Umbilical, Riser Installations, & geophysical surveys utilizing LBL, USBL, multibeam, sub-bottom profiler & side-scan sonar.
- Party Chief; Fugro; Shell GTL LBL jumper metrology, dimensional control, and structure installation offshore Qatar (2009). Responsible for the LBL acoustic technical oversight, planning, data acquisition, QA/QC, analysis, and reporting.
- Party chief; Fugro; Reliance Industries' KG-D6 and ONGC Vasai East platform jacket installations, positioning, and engineering support projects off the coast of India (2007-2008).

BALLARD MARINE CONSTRUCTION, Neenah, Wisconsin • 2019-2020

Leading marine construction company and diving contractor with approximately 50 full-time employees

Hydrographic Operations & QC Manager: Directed multi-disciplinary teams of surveyors, divers, craft workers, equipment operators, and engineers in completing marine & civil projects of various sizes. Oversaw cross-functional operations including hydrographic and ROV surveys, proposal development, strategic planning, financial management, and management of vendors and subcontractors. Performed inland water hydrographic surveys and Diver/ROV inspections; processed data; prepared maps/reports; operated observation class ROVs. Conducted business development. Prepared bids and cost estimates; developed procedures, management plans and proposals. Monitored and controlled risk and quality using proven processes. Tracked project success using performance metrics. Oversaw budgets and scheduling. Forged relationships with clients, engineering consultants, contractors and vendors.

Select Accomplishments:

- Led hydrographic operations during establishment of innovative new remote sensing and technology group for an inland water marine construction company.
- Secured over \$15,000 in new business during 1st 3 months of tenure during COVID-19 outbreak and challenging market conditions, with potential of 10-fold increase in revenue.
- Implemented leading-edge safety and quality standards required by larger clients to ensure strong competitive position when bidding for high-revenue projects.
- Championed key process and quality improvement initiatives at all organizational levels, achieving stakeholder support for large-scale cultural change.

NOTE: Additional experience includes Surveyor for the National Park Service and Fugro, Engineer in Training at K.S. Associates and Deputy Engineer at Port Freeport. Details upon request.

EDUCATION

Master of Science in Engineering: Civil Engineering

University of Washington, Seattle, Washington

Postgraduate Diploma in Advanced Hydrography

University of Plymouth, Plymouth, UK

Bachelor of Science in Geophysics

Bowling Green State University, Bowling Green, Ohio

CERTIFICATIONS & QUALIFICATIONS

Certified Hydrographer (CH), The Hydrographic Society of America #254

Professional Surveyor (PS), Ohio Registration #S-8074

Professional Surveyor and Mapper (PSM), Florida Registration #LS7337

Project Management Professional (PMP): #2688957

Construction Quality Management for Contractors (CQM), Kugan & Associates, LLC San Diego

30-Hour OSHA Safety Training (Construction)

Title 46 Master 100 Gross Register Tons: USCG Ref Number 3044577 Merchant Mariner Credential

Title 14 Part 107 Remote Pilot with an sUAS rating: FAA Certification #4403108 Airman Credential

PROFESSIONAL AFFILIATIONS

The Hydrographic Society of America (THSOA)

Project Management Institute (PMI)

Aircraft Owner's and Pilot's Association (AOPA)

LANGUAGES

Fluent: English • Conversational: Italian

TECHNICAL SKILLS

Microsoft Office: Word, PowerPoint, Excel, Projects • AutoCAD • QGIS • Qinsy • Trimble Business Center • DJI Terra Pro • IHO S-44 Hydrographic Standards • USACE/NAVFAC/ISO 9001 Quality Management • OSHA Safety Regulations • IMCA Codes of Practice

SPECIALIZED LAND SURVEY EQUIPMENT

AsteRx-U3 Marine Septentrio & Leica GS-7 RTK • Trimble R780-2 450-900 L1/L2/L5 GNSS • Trimble TSC5 Controller/Handheld computing system • Trimble SPS930, Leica TS16, Topcon GTS 213 Total Stations • Leica NA730 Automatic Level • DJI Matrice 350 RTK sUAS • Zenmuse L-2 LiDAR

SPECIALIZED HYDROGRAPHIC EQUIPMENT

ROVINS, SPRINT-Nav, Applanix POSMV, Lodestar, Octans, Kongsberg Seatex Heading/MRU • Trimble SPS461 RTK Heading & Positioning • Teledyne Seabat 7125 & T50, R2Sonic 2024, Norbit WBMS multibeam • Edge Tech 4200 & 2025 Side Scan Sonar • Innomar SES 2000 Sub-bottom Profile • Geometrics G882 Transverse Gradiometer • Teledyne TSS 440 Pipe Tracker • Valeport Tidemaster tide gauge • Vaisala barometer • Applied Acoustics Nexus, Sonardyne & Kongsberg HiPAP 501 USBL • Trittech SeaKing 704 Bathy • Innova Mux/Topside • MOXA network switch • Sonardyne 6G LBL • ARIS Acoustic Camera • Nortek 1000 & RDI Workhorse Doppler Velocity Log • Seabird, Valeport Swift & Midas CTD • Seabotix vLBV 950 & Video Ray Pro 4 ROVs • Piranha 6" Dredge Pump