Kenneth Craigue, Jr.

Geoscientist | Field Party Chief | Project Manager

kencraigue@tdi-bi.com, (979) 693-3446

TDI-Brooks International, Inc.
14391 S. Dowling Rd, College Station, TX 77845
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PROFESSIONAL EXPERIENCE

- Geoscientist | Field Party Chief | Project Manager | Hydrographic Surveyor, TDI-Brooks International, Inc., 2018 – Present
- Owner | Lead Scientist, Trinity Hydrogeoscience Services, LLC, February 2023 – Present
- Hydrographic Surveyor, Naismith Marine Services, October 2018 - November 2018
- Hydrographic Field Technician, Prudent Engineering, April 2018 - September 2018
- Bathymetric Production Supervisor, EdgeTech, April 2014 - April 2018
- Work Center Supervisor, United States Marine Corps, August 1980 - September 1990

PROFESSIONAL SUMMARY

- 45+ Cruises over the past seven years as a Party Chief conducting Geotechnical, Geochemical, Geophysical, and Environmental Baseline operations
- 45+ Cruises over the past seven years as a Lead Technician for Geotechnical, Geochemical, Geophysical, and Environmental Baseline acquisitions
- Client's Representative, Project Manager, Party Chief, Lead Technician, Lead Navigator, and Vessel MOB Lead.
- Technical Health Safety & Environmental Officer (HSE) with Emergency Response Plan and reporting responsibilities.
- Twelve years of survey experience with Oil & Gas, Wind-Farm Energy Areas, and Communication Industries.
- Twenty-two years of experience as an Electronics Technician/Engineer in both organizational maintenance and production marine technology manufacturing.
- Experience with geophysical, environmental baseline, and geotechnical disciplines using Vessel, ROV, and Shallow/Deep Towed Sensors.
- Twelve years of Hydrographic Survey experience in project planning, management, and execution
- Highly skilled at MBES, Side Scan Sonar, and Sub Bottom profiler data QA/QC and interpretation
- Participated in the development of innovative Geotechnical and Geophysical tools and techniques for TDI-Brooks
- Consistently manufacture and adapt Geotechnical and Geophysical tools to third-party applications
- Eight years of Laboratory Technician and Analytical Scientist experience within B&B Laboratories
- Certified EdgeTech manufacturing and repair technician for Bathymetric, Synthetic Aperture Side Scan Sonar, Sub Bottom Profiler (CHIRP), and Topside Interface Units

KEY ACHIEVEMENTS - TDI BROOKS INTERNATIONAL, INC.

- Party Chief for Geotechnical and Benthic Wind Farm Survey for Vineyard Northeast
- Party Chief for Geophysical Wind Farm Survey for US Wind
- Party Chief for Geophysical and Geotechnical surveys in West Africa
- Party Chief for Geophysical Pipeline Survey for COLT
- Party Chief & Technical/Data advisor for TDI-Brooks
- Client's Representative for BluePoint Wind
- Field Project Manager, BlueDot & Alpine
- Highly skilled and routinely complete project mobilization and operational reports
- Conducted EBS, Cable Route, and Pipeline surveys using single, multi-beam sonar, sub-bottom profiler, and magnetometer
- Proficient with Discover, Sonarwiz, QINSy and QImera QPS, Global Mapper, ArcGIS, and Caris acquisition and processing
- Lead technician for MBES, USBL, SSS, and SBP mobilization/demobilization, operation, and field repair
- Lead technician for GPS, DGPS, Gyro, and USBL Navigation installation and set-up on new survey vessel
- Lead Navigator on Marine Geotechnical Surveys
- Competent Underwater ROV operator and pilot
- Adept at Kongsberg and Teledyne USBL calibration and operations
- Conducted seven Marine Geotechnical Surveys with Box, Jumbo/Piston Core, and CPT operations
- Very proficient at CTD set-up, programming, and operation
- Extensive experience at gCPT set-up, operation, and processing

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- Highly skilled at T-Bar set-up, operation, processing, and Quality Check of results

KEY ACHIEVEMENTS – TRINITY HYDROGEOSCIENCE SERVICES, LLC

- Duval and Walton County, Florida Geohazard Consulting and Case Studies on Coastal Flooding and Sea Level Rise
- Geophysical Surveys including hull mounted/towed MBES, SSS, SBP, TVG, and 2DHR
- Project reporting to include mobilization and operations
- QHSE responsibility
- Analyze and interpret data for reporting

KEY ACHIEVEMENTS - NAISMITH MARINE SERVICES

- Conduct Harbor and Mean Highwater surveys using single dual frequency and multi-beam sonar
- Utilized magnetometer for harbor hazard surveys
- Perform transects using Hemisphere GPS base and rover set-up
- Analyze and interpret data for reporting using HyPack

KEY ACHIEVEMENTS - PRUDENT ENGINEERING

- Conducted 100 Bridge Fathometer and Diving Surveys for NYDOT
- Consistently Configured and operated R2Sonic 2022 multi-beam Sonar
- Routinely conducted bridge/land surveys with Trimble Total Station/GPS

KEY ACHIEVEMENTS - EDGETECH

- Build, Test, and Repair of Interferometric Multi Phase Echo Sounders
- Conduct Sea Trials and Evaluate Bathymetric Data
- Interpret and Evaluate Schematics and Drawings
- Captain Ocean Researcher Survey vessel

KEY ACHIEVEMENTS - UNITED STATES MARINE CORPS

- Administration of Maintenance on F/A-18 Avionics Systems
- Quality Assurance Collateral Duty Inspector

FORMAL EDUCATION

- MSc. Geoscience GIS Candidate, Florida Atlantic University (2027)
- BSc. Geosciences w/Conc. Data Analytics, Southern New Hampshire University (2026)
- AS Engineering Science (Electrical), Bristol Community College (2016)

PROFESSIONAL TRAINING

- US Passport
- Merchant Mariner Credential – US Coast Guard
- OGUK Medical Certificate
- OPITO BOSIET/T-HUET w/CA-EBS
- Transportation Worker Identification Credential (TWIC)
- Certified on Acquisition and Processing Software

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- Certified Maritime Manufacturing (EdgeTech), Test Technician, and Operator
- Certified Mechanic and Avionics Technician (FAA A&P License)

FIELD EXPERIENCE

- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, CSA-ONHYN Pipeline Route, Liberia (Sep 2026)**. RV Gyre performed an EBS survey in the CRS05/06 AOI. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Kongberg EM 304 MBES, EM-3300 4x4 SBP, HiPAP USBL, and deployed 0.5m Box Corer, Plankton Tow, Video Sled, and Rosette Water Sampling and CTD systems provided raw data for QC and acquisition requirements.
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, TotalEnergies - GeoPartners MBES Seep Survey, Liberia (Jul 2026 to Aug 2026)**. RV Gyre performed an MBES and SBP detection, Heat Flow, and Piston Coring within the Monrovia and Harper Basins. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Kongberg EM 304 MBES, EM-3300 4x4 SBP, HiPAP USBL systems provided raw data for QC and acquisition requirements. 3in Piston Coring and Heat Flow measurements/activities provided coring sample data and boundary conditions for onboard and onshore analysis.+
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, TotalEnergies - GeoPartners MBES Seep Survey, Liberia (Jun 2026)**. RV Gyre performed an MBES and SBP detection in the Monrovia and Harper Basins. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Kongberg EM 304 MBES, EM-3300 4x4 SBP, HiPAP USBL systems provided raw data for QC and acquisition requirements.
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, CSA-ONHYN Pipeline Route, Liberia (Jun 2026)**. RV Gyre performed an MBES and SBP detection in the CRS05/06 AOI. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Kongberg EM 304 MBES, EM-3300 4x4 SBP, HiPAP USBL systems provided raw data for QC and acquisition requirements.
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, Armstrong Oil and Gas MBES Seep Survey, Aruba (Mar 2026 to Apr 2026)**. RV Gyre performed an MBES and SBP detection in the AOI. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Kongberg EM 304 MBES, EM-3300 4x4 SBP, HiPAP USBL systems provided raw data for QC and acquisition requirements.
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, United Oil and Gas Jamaica SGE HF MBES Survey, Walton/Morant Basins (Feb 2026)**. RV Gyre performed an MBES and SBP detection, Heat Flow, and Piston Coring within the Walton and Morant basins. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Kongberg EM 304 MBES, EM-3300 4x4 SBP, HiPAP USBL systems provided raw data for QC and acquisition requirements. 3in Piston Coring and Heat Flow measurements/activities provided coring sample data and boundary conditions for onboard and onshore analysis.+
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, Heritage Trinidad and Tobago Shallow Hazard Site Survey, (Dec 2025 to Jan 2026)**. RV Gyre performed a high-resolution geophysical survey. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, HiPap USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, EOG Resources Trinidad Block NCMA4a Geophysical and Geotechnical Survey (Oct 2025 to Dec 2025)**. RV Gyre performed a high-resolution geophysical survey with subsequent geotechnical core sampling. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, HiPAP USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications. Geotechnical coring with 3in Piston Corer and laboratory testing/storage.

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- **Technical Coordinator/Lead Navigator – RV Gyre, TDI-Brooks, EOG Resources Trinidad Block Beryl Pipeline Route Geophysical and Geotechnical Survey (Oct 2025 to Nov 2025)**. RV Gyre performed a high-resolution geophysical survey with subsequent geotechnical core sampling. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, HiPAP USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications. Geotechnical coring with 3in Piston Corer and laboratory testing/storage.
- **Technical Coordinator/Lead Navigator – RV Proteus, TDI-Brooks, CABGOC Angola EBS Program, Angola Basin, Angola (Jun 2025)**. RV Proteus performed an Environmental Monitoring Study CABGOC to evaluate quantity of discharges and effluents associated with current petroleum activities and operations. Acquired discrete water samples with Seabird SBE-32 Carousel with Niskin bottles, Seabird SBE-19 CTD profiler with Dissolved Oxygen, Turbidity, Fluorometer, and pH/Redox sensors, and Sediment samples with 0.5m2 Box Corer. Positioning with Kongsberg HiPAP 351P USBL and cNode beacons. Processing and analysis SeaSoft V2 SBE Data Processing, complete suite of laboratory QC samples with sediment and chemistry performance and control. Performed water sampling and rosette sensor mobilization, programming, data acquisition, and analysis.
- **Technical Coordinator/Lead Navigator – RV Proteus, TDI-Brooks, StarFixgeo, Guinea/Angola Basin, Congo (May 2025).** Utilized RV Proteus First E & P/StarFix Analog Geophysical Shallow Hazard Site Survey Project. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Technical Coordinator/Lead Navigator – RV Proteus, TDI-Brooks, First E & P/StarFixgeo, Gulf of Guinea, Nigeria (Mar 2025 to Apr 2025).** Utilized RV Proteus First E & P/StarFix Analog Geophysical Shallow Hazard Site Survey Project. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Technical Coordinator – RV Proteus, TDI-Brooks, First E & P/StarFixgeo, Gulf of Guinea, Nigeria (Mar 2025).** Utilized RV Proteus First E & P/StarFix 2DHR Geophysical Shallow Hazard Site Survey Project. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Technical Coordinator – RV Proteus, TDI-Brooks, Shell/CSL, Gulf of Guinea, Nigeria (Feb 2025 to Mar 2025).** Utilized RV Proteus Shell Analog Geophysical Pipeline Route Project. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Technical Coordinator – RV Proteus, TDI-Brooks, Shell/CSL, Gulf of Guinea, Nigeria (Feb 2025).** Utilized RV Proteus Shell 2DHR Geophysical Pipeline Route Project. Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Technical Coordinator – RV Proteus, TDI-Brooks, Shell/CSL, Gulf of Guinea, Nigeria (Feb 2025). Utilized RV** Proteus Shell Analog Geophysical shallow water hazards project. . Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.

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- **Technical Coordinator/Lead Navigator – RV Proteus, TDI-Brooks, Shell/CSL, Gulf of Guinea, Nigeria (Jan 2025 to Feb 2025).** Utilized RV Proteus Shell 2DHR Geophysical shallow water hazards project. . Lead offshore technical and data specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data and provided on vessel raw data QC and acquisition verifications.
- **Party Chief/Mobilization Specialist – RV Proteus, TDI-Brooks, Shell/CSL, Las Palmas, Gran Canaria (Dec 2024 to Jan 2025).** Utilized RV Proteus for mobilization of Shell 2DHR & Geophysical project planned for Nigeria. Lead mobilization and offshore testing specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data to demonstrate system functionality.
- **Mobilization Specialist – THS, RV EMMA McCall, TDI-Brooks, Shell, Freeport, Texas (Sep 2024 to Oct 2024).** Utilized RV Emma McCall for mobilization of Shell 2DHR & Geophysical project planned for Nigeria. Lead mobilization and offshore testing specialist, data collection and QA/QC coordinator. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Geometrics G882 Magnetometer, and GeoEel 210cu 2DHR Marine UHRS w/48 Channel Streamer. Acquired data to demonstrate system functionality.
- **Project Manager – THS, RV Proteus, TDI-Brooks, CSA/Shell, Suriname (May 2024 to June 2024).** Field Project Manager and Technical/Data Coordinator/Navigator for Environmental Baseline Survey 135nm off the east coastline of Suriname. Oversee project management and reporting, QA/QC of: Acquired discrete water samples with Seabird SBE-32 Carousel with Niskin bottles, Seabird SBE-19 CTD profiler with Dissolved Oxygen, Turbidity, Fluorometer, and pH/Redox sensors, sediment samples with 0.5m2 Box Corer. Positioning with Kongsberg HiPAP 351P USBL and cNode beacons. USBL calibration with APOS and cNode Maxi, and WinFrog Navigation Suite. Processing and analysis with SeaSoft V2 SBE Data Processing, and complete suite of laboratory QC samples with sediment and chemistry performance and control. Field Data QA/QC was conducted with real-time display observations, and Global Mapper. QHSE Responsibility.
- **Project Manager – THS, RV Proteus, TDI-Brooks, EOG/BERYL, Trinidad (Dec 2023).** Field Project Manager and Technical/Data Coordinator for 2DHR and Analog Shallow Water Hazards Survey 14nm off the Southeast coastline of Trinidad and Tobago. Oversee project management and reporting, QA/QC of: MBES EM710 w/SeaPath 330 IMU, Seabird CTD SBE 19Plus V2, 2DHR MCS with 70ci air gun source, Alpha 200 SCFM compressor, 48 Channel 400m Geometrics Geo Eel Digital Marine Streamer, Innomar SES-2000 Compact SBP, EdgeTech 4205 SSS, G882 Mag in SSS tow configuration, and WinFrog Navigation Suite. Field Data QA/QC deliverables exceeding IHO Special Order 1a using QImera, SonarWiz, SeiSee, and Global Mapper. Geotechnical 3-inch Piston Core Sampling. Field Data QA/QC was conducted with real-time display observations, Seisee, and Global Mapper. QHSE Responsibility.
- **Project Manager – THS, RV Proteus, TDI-Brooks, PARENCO, Trinidad (Nov 2023 to Dec 2023).** Field Project Manager and Technical/Data Coordinator for 2DHR and Analog Shallow Water Hazards Survey 14nm off the Southeast coastline of Trinidad and Tobago. Oversee project management and reporting, QA/QC of: MBES EM710 w/SeaPath 330 IMU, Seabird CTD SBE 19Plus V2, 2DHR MCS with 70ci air gun source, Alpha 200 SCFM compressor, 48 Channel 400m Geometrics Geo Eel Digital Marine Streamer, Innomar SES-2000 Compact SBP, EdgeTech 4205 SSS, G882 Mag in SSS tow configuration, and WinFrog Navigation Suite. Field Data QA/QC deliverables exceeding IHO Special Order 1a using QImera, SonarWiz, Seisee, and Global Mapper. Field Data QA/QC was conducted with real-time display observations, Seisee, and Global Mapper. QHSE Responsibility.
- **Field Project Manager – ERM Neptune LNG Decom, RV Shearwater, Massachusetts Bay (Sep 2023).** Field Project Manager and Party Chief for ROV element of LGN Decom survey in Massachusetts Bay near Marblehead Neck area. Oversee project management for ROV scope including depth of burial, structure and elevation(s), and benthic habitat using: Argus Mini ROV, BlueView BV5000 3D Scanning Sonar, Teledyne TSS 660 Pipeline Tracker, Mini Ranger 2 USBL, and QPS QINSy Navigation Suite. Data QA/QC was conducted with real-time video observations, DeepView, and Global Mapper. QHSE Responsibility.

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- **Field Project Manager – Alpine Ocean, ERM Neptune LNG Decom, RV Shearwater, Massachusetts Bay (Jul 2023 to Sep 2023).** Field Project Manager and Party Chief for HRG element of LGN Decom survey in Massachusetts Bay near Marblehead Neck area. Oversee project management, QA/QC of: MBES EM2040 w/Applanix POS MV, Innomar-2000 Standard SBP, Mini Ranger 2 USBL, EdgeTech 4205 SSS, G882 Mag in TVG configuration, and QPS QINSy Navigation Suite. Data QA/QC deliverables exceeding IHO Special Order 1a using SeaView, GeoSoft, Seisee, and Global Mapper. QHSE responsibility.
- **Senior Client Representative – Bluepoint Wind OFW, RV Time and Tide, NY Bight (Jun 2023 to Jul 2023).** Lead Bluepoint Wind Client Representative for Nearshore ECR Recon and QMA survey in the NY Bight Area. Oversee project management, QA/QC of: Seismic UHRS (SCS – Boomer), MBES, Innomar SBP, EdgeTech 4205 SSS, G882 Mag in TVG configuration. Data QA/QC using Kingdom SMT, GeoSoft, Seisee, and Global Mapper. QHSE responsibility.
- **Senior Client Representative – Bluepoint Wind OFW, RV Gerry Bordelon, NY Bight (May 2023 to Jun 2023).** Lead Bluepoint Wind Client Representative for Offshore ECR Recon and QMA survey in the NY Bight Area. Oversee project management, QA/QC of: MBES, Innomar SBP, Klein SSS, G882 Mag in TVG configuration. Data QA/QC using Kingdom SMT, GeoSoft, Seisee, and Global Mapper. QHSE responsibility.
- **Project Manager – THS, RV Brooks McCall, TDI-Brooks, Vineyard Mid-Atlantic OFW (Apr 2023 to May 2023).** Lead mobilization and offshore testing specialist, data collection and QA/QC coordinator for QMA survey of OFW Export Cable route in NY Bight. Vessel mounted Norbit MBES w/Applanix POS MV, AE Pyxis USBL, Innomar Standard 24bit Parametric SBP, EdgeTech 4205 tri-frequency SSS, Traverse Gradiometer (dual G882 MAG), and Geo Marine SCS Sparker UHRS. Delivered to IHO Special Order 1a specs and processed with SonarWiz, QImera, and Oasis Montaj.
- **Party Chief, Vineyard Northeast Geophysical Program, Long Island Sound, Atlantic Ocean (Oct 2022 to Jan 2023).** Utilized RV Brooks McCall for QMA & Export Cable Route survey for Vineyard Wind. Contracted to MOB and complete High Resolution Geophysical program with Norbit dual head MBES, ixBlue GAPS USBL, Innomar Standard parametric sub-bottom profiler, EdgeTech 4205 tri-frequency side scan sonar, Traverse Gradiometer, and single channel seismic UHRS to specs exceeding IHO Special Order 1a deliverables. Delivered HSE metrics and key performance indicators without related injuries as HSE officer.
- **Party Chief, Attentive Geophysical Program, Mid-Atlantic Ocean, New York Bight (Sep 2022 to Oct 2022).** Utilized RV Emma McCall for QMA Box-in (w/UXO site) and reconnaissance survey & Geotechnical Site Assessment for Attentive Energy. Contracted to MOB and complete High Resolution Geophysical surveys for site assessment with Norbit dual head MBES, ixBlue GAPS USBL, Innomar Standard parametric sub-bottom profiler, EdgeTech 4205 tri-frequency side scan sonar, Traverse Gradiometer, and single channel seismic UHRS to BOEM specs and deliverables. Performed duties as project HSE Officer.
- **Senior Surveyor/Technician, WEL-Calypso Trinidad Geophysical Program, Atlantic Ocean (Aug 2022 to Sep 2022)**. Utilized RV Gyre for an inter-island Cable route survey. Acquired Norbit single head MBES, EdgeTech DSS-2050 dual SSS/SBP, Geometrics G-882 Magnetometer, Kongsberg HiPAP 351P USBL w/lookback, and Winfrog Navigation Suite data to specs exceeding NOAA/IHO Special Order 1a and deliverables. Software used: Discover, MagLog, QImera, Fledermaus, SonarWiz, and Global Mapper.
- **Party Chief, Vineyard Northeast Geotechnical and Benthic Program, Atlantic Ocean (May 2022 to Jun 2022)**. Utilized RV Emma McCall for a Geotechnical and Environmental survey for engineering and permitting requirements to support characterization, permitting, and design of a wind development area (WDA). Acquired ROV video transects with Deep Trekker vector thrust ROV and Grab Sampling with a 0.5m2 Box Corer to BOEM specs and deliverables. Positioning was achieved with Kongsberg HiPAP 351P and cNode beacons.
- **ROV Pilot/Lead Tech, Vineyard Northeast Geotechnical and Benthic Program, Atlantic Ocean (Apr 2022 to May 2022)**. Utilized RV Brooks McCall for a Geotechnical and Environmental survey for engineering and permitting requirements to support characterization, permitting, and design of a wind development area (WDA). Acquired ROV video transects with Blue vectored thrust and Outland 1000 ROV's to BOEM specs and deliverables. Positioning was achieved with Kongsberg HiPAP 351P and cNode beacons.
- **Party Chief/Navigator, Capricorn Geophysical/EBS Program, Mauritania, Atlantic Ocean (Jan 2022 to Feb 2022).** RV Proteus performed a joint Environmental Baseline Survey with Benthic Solutions Limited (BSL) and a Geophysical and Site Coring program. Acquired Kongsberg EM-710 MBES, EdgeTech Full Spectrum 3200 CHIRP Sub-Bottom Profiling, Kongsberg HiPAP 351P USBL positioning, SeaPath 200 MRU, and Winfrog Navigation Suite data to project specs. Processed data using Caris HIPS/SIPS, Fledermaus, and SonarWiz.

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- **Party Chief, US Wind Geophysical Program, Atlantic Ocean (Mar 2021 to Nov 2021).** RV Brooks McCall and RV Emma McCall completed a High-Resolution Geophysical survey for Maryland OCS lease area and Export Cable Route. Acquired Norbit dual head MBES, Applanix POSMV, Teledyne Ranger 2 HPT 3000 USBL w/ lookback and WSM 6+ beacons, Innomar Standard parametric sub-bottom profiler, EdgeTech 4205 tri-frequency side scan sonar, Traverse Gradiometer, and multi & single channel seismic UHRS to specs exceeding BOEM deliverables.
- **Party Chief/Navigator, XOM Angola EMS Program, Angola, Atlantic Ocean (Feb 2021 to Mar 2021)**. RV Proteus performed an Environmental Monitoring Study for Esso Exploration Angola to evaluate quantity of discharges and effluents associated with offshore drilling activities. Acquired discrete water samples with Seabird SBE-32 Carousel with Niskin bottles, Seabird SBE-19 CTD profiler with Dissolved Oxygen, Turbidity, Fluorometer, and pH/Redox sensors, Seabed Imagery Ocean Imaging Systems SPI/PV cameras with scaling lasers, Sediment samples with 0.25m2 Box Corer, and Bongo Nets for zooplankton sampling. Positioning with Kongsberg HiPAP 351P USBL and cNode beacons. Processing and analysis SeaSoft V2 SBE Data Processing, complete suite of laboratory QC samples with sediment and chemistry performance and control. Performed duties as Project HSE & Hazardous Materials Officer.
- **Party Chief/Navigator, CABGOC Angola EBS Program, Angola, Atlantic Ocean (Jan 2021 to Feb 2021)**. RV Proteus performed an Environmental Baseline Survey for Cabinda Gulf Oil to characterize conditions of sediment and water quality for in-field development infrastructure. Acquired discrete water samples with Seabird SBE-32 Carousel with Niskin bottles, Seabird SBE-19 CTD profiler with Dissolved Oxygen, Turbidity, Fluorometer, and pH/Redox sensors, sediment samples with 0.25m2 Box Corer. Positioning with Kongsberg HiPAP 351P USBL and cNode beacons. Processing and analysis with SeaSoft V2 SBE Data Processing, and complete suite of laboratory QC samples with sediment and chemistry performance and control.
- **Party Chief/Navigator, Trident EQ Geophysical Program, Equatorial Guinea, Atlantic Ocean (Dec 2021 – Jan 2022)**. Utilized RV Proteus to conduct reconnaissance and assess seabed conditions for proposed drill rig, platforms, and pipeline routes. Acquired Kongsberg EM710 MBES, EdgeTech 4200 DF Side Scan Sonar, EdgeTech Full Spectrum 3200 CHIRP Sub-Bottom Profiling, Kongsberg HiPAP 351P USBL positioning, SeaPath 330+ MRU5, and Winfrog Navigation Suite data to project specs. Processing was accomplished onshore.
- **Lead Navigator, Creocean-Total EBS Program, Ivory Coast, Atlantic Ocean (Sep 2021 to Oct 2021)**. RV Proteus utilized to characterize sediment and water quality. Hardware used: Seabird SBE-19 CTD w/DO, Turbidity, Fluoro, and pH sensors, SBE-32 Carousel w/Niskin bottles, Jumbo Piston Corer, 0.5m2 Box Corer, Kongsberg HiPAP 351P USBL w/cNode beacons, EdgeTech Full Spectrum Hull Mounted 3200 SBP. Software used: SeaSoft V2 SBEDataProcessing, EdgeTech Discover, Lab suite QC samples with sediment and chemistry.
- **Lead Navigator, Echo GoM Geotechnical Program, Gulf of Mexico (Jun 2020 to Aug 2020)**. RV Brooks McCall utilized to characterize sediment and water quality. Hardware used: Seabird SBE-19 CTD w/DO, Turbidity, Fluoro, and pH sensors, SBE-32 Carousel w/Niskin bottles, Jumbo Piston Corer, 0.5m2 Box Corer, Kongsberg HiPAP 351P USBL w/cNode beacons, EdgeTech Full Spectrum Hull Mounted 3200 SBP. Software used: SeaSoft V2 SBEDataProcessing, EdgeTech Discover, Lab suite QC samples with sediment and chemistry.
- **Lead Navigator, Sea Trial of Miss Emma McCall, Gulf of Mexico (May 2020 to Jun 2020)**. Installed and functionally checked: Navigation suite, Kongsberg HiPAP 351P USBL, C-Nav 3050M and Trimble/SkyFix DGPS, Hemisphere V102 Gyro.
- **Lead Navigator, Murphy Kings Quay Geotechnical Project, SubSea7, Gulf of Mexico (Apr 2020 to May 2020)**. RV Brooks McCall coring program along proposed cable route. Hardware used: Jumbo Piston Corer, Stinger CPT, Kongsberg HiPAP 351P w/cNode beacons. Software used: Winfrog Navigation Suite
- **Lead Navigator, TGS Geotechnical Project, TGS Senegal, Atlantic Ocean, Senegal (Feb 2020 to Mar 2020)**. RV Proteus utilized to characterize sediment and water quality. Hardware used: Seabird SBE-19 CTD w/DO, Turbidity, Fluoro, and pH sensors, SBE-32 Carousel w/Niskin bottles, Jumbo Piston Corer, 0.5m2 Box Corer, Kongsberg HiPAP 351P USBL w/cNode beacons, EdgeTech Full Spectrum Hull Mounted 3200 SBP. Software used: SeaSoft V2 SBE Data Processing, EdgeTech Discover, Lab suite QC samples with sediment and chemistry.
- **Lead Navigator, BP Geotechnical Project, BP Tortue, Atlantic Ocean, Dakar, Senegal (Jan 2020 to Feb 2020)**. RV Proteus utilized to characterize sediment and water quality. Hardware used: Seabird SBE-19 CTD w/DO, Turbidity, Fluoro, and pH sensors, SBE-32 Carousel w/Niskin bottles, Jumbo Piston Corer, 0.5m2 Box Corer, Stinger CPT, Kongsberg HiPAP 351P USBL w/cNode beacons, EdgeTech Full Spectrum Hull Mounted 3200 SBP. Software used: SeaSoft V2 SBE Data Processing, EdgeTech Discover, Lab suite QC samples with sediment and chemistry.

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- **Party Chief/Captain, COLT Geotechnical/Geophysical Project, ENBRIDGE – COLT, GoM (Nov 2020 to Dec 2020)**. Captain RV Barnacle for Nearshore Export Cable Route survey. Contracted to MOB and complete High Resolution Geophysical program with QPS QINSy Navigation Suite, Reason Seabat T20 MBES, Applanix POSMV, EdgeTech 4200 side scan sonar, EdgeTech SB-216 sub-bottom profiler, Geometric G-882 Magnetometer to specs exceeding BOEM/IHO Special Order 1a deliverables. Processed with QPS QImera, and SonarWiz.
- **Party Chief, COLT Geotechnical/Geophysical Project, ENBRIDGE – COLT, Gulf of Mexico (Aug 2019 to Dec 2019)**. Utilized RV Brooks McCall for Export Cable Route survey. Contracted to MOB and complete High Resolution Geophysical program with QPS QINSy Navigation Suite, Reason Seabat T20 MBES, Applanix POSMV, Teledyne Ranger 2 HPT 3000 USBL w/ lookback and WSM 6+ beacons, Innomar Standard parametric sub-bottom profiler, EdgeTech DSS-2000 side scan sonar/sub-bottom profiler, Geometric G882 Magnetometer to specs exceeding BOEM/IHO Special Order 1a deliverables. Processed with QPS QImera, Rad-ex Pro, and SonarWiz.
- **T-Bar Technician, Oceaneering Total North Platte AUV Project, Total, Gulf of Mexico, Fourchon, LA (Jun 2019 to Jul 2019)**. Sub-contracted by Oceaneering as T-Bar Technician to measure shear strength in Box Core Samples. Hardware used: T-Bar. Software used: WinDaq convert (proprietary).
- **T-Bar Technician, Oceaneering Chevron Anchor Project, Chevron, Gulf of Mexico, Fourchon, LA (May 2019 to Jun 2019).** Sub-contracted by Oceaneering as T-Bar Technician to measure shear strength in Box Core Samples. Hardware used: T-Bar. Software used: WinDaq convert (proprietary).
- **Navigator, Environmental Baseline Survey, Exxon Mobil, Atlantic Ocean, Guyana (Mar 2019 to Apr 2019).** RV Proteus utilized to characterize sediment and water quality. Hardware used: Seabird SBE-19 CTD w/DO, Turbidity, Fluoro, and pH sensors, SBE-32 Carousel w/Niskin bottles, Jumbo Piston Corer, 0.5m2 Box Corer, Kongsberg HiPAP 351P USBL w/cNode beacons, EdgeTech Full Spectrum Hull Mounted 3200 SBP. Software used: SeaSoft V2 SBEDataProcessing, EdgeTech Discover, Lab suite QC samples with sediment and chemistry.
- **Survey Technician, Cable Route Survey, GEOTEAM, Caribbean Sea, Guadeloupe (Jan 2019 to Feb 2019).** Cable Route, inter-island pre-lay survey in Guadeloupe. Acquired Edge Tech DSS2000 dual SSS/SBP, Kongsberg EM710, Geometrics G-882 Magnetometer, QINSy. Processed with CARIS HIPS/SIPS and SonarWiz.