Artem Zvonkov
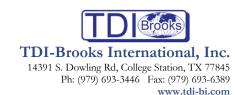## Data processor/Surveyor
artem@tdi-bi.com, (979) 693-3446

PROFESSIONAL EXPERIENCE

- Hydrographic surveyor/Data processor at freelance 2011-2022
- Hydrographic surveyor/Data processor TDI-Brooks international, October 2022 - Present
- 13 years of survey and data processing experience in the hydrographic, oil & gas and wind farm industries.
- Online surveyor, data processor, survey engineer.
- Experience with hydrographic survey using Vessel, survey boat and data processing as well.
- Specialized in multibeam / single beam echo sounder data acquisition, processing and survey management in all environments.

KEY ACHIEVEMENTS - TDI BROOKS INTERNATIONAL, INC.

- **Online surveyor /Data processor 2018-2022**
  Client: BHP, Total, Shell, BP and others
  Project's name: Different projects.
  Description of performed work.
  Data processing of collected data. Quality control of data.
  During geotechnical and environmental works worked as an online surveyor, positioned vessel on a target. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).
  Software: QPS Qimera, Qinsy, GeoCoder, Caris Hips and Sips, Global Mapper.

KEY ACHIEVEMENTS – At freelance

- **Online surveyor (1 month August 2022 USA, Los Angeles-Eurika).**
  Employer: eTrac.
  Client: NEC corporation (Japan)
  Description of performed work.
  Touchdown monitoring operation during the cable laying. Vessel mobilization, USBL calibration. SVP cast (configuration, deploy, processing and uploading casts to software).
  Software: Hypack, Trimble, HIPAP 350P. C-Node beacons. DataLog express.
- **Data processor (1 month July 2022)**
  Employer: CMGeomatics
  Client: Various clients.
  Director: Dave Cullen.
  Description of performed work.
  Worked as a Remote Data processor. Processed bathymetric data in Qimera software.
  Prepared bathymetric surfaces for client. QC.
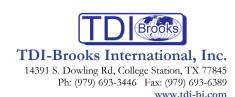 **Software**: Qimera, Global mapper.
- **Online Surveyor (1 month June 2022 Denmark).**
  Employer: MMT/Ocean Infinity
  Client: Energinet. (UXO clearance)
  Description of performed work.
  Worked on board R/V Strill Explorer as a Surveyor in Denmark waters. Performed Online Surveyor's functions such as vessel and ROV positioning on a potential target. Performed of TSS calibration (Background compensation). MBES R2Sonic calibration. MBES data acquisition. Visual DVR events recording. ROV dredging support. SVP cast (configuration, deploy, and uploading casts to software).

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Software used: QPS Qinsy, Eiva NaviScan, Sprint, Sonic Control 2000. DeepView (TSS). Visual DVR V10. Valeport SVX, DataLog express, **Hardware:** MBE R2Sonic, Octans, Hipap 501.C-Nav, TSS 440.

- **MBES Data Processor (1 month Apr 2022 – May 2022 Germany)**
  Employer: GEO XYZ.
  Client: Energinet. (Boulder clearance).

  Party chief: Gertjan Bishop.

  Description of performed work.
  Worked for GEO XYZ onboard R/V Geo Ocean 5 as a Data Processor on a Wind farm park in Germany. Processed MBES data using Autoclean and Qimera software. Smoothed SSS data using QINSy data processing manager software. Data QC. Prepared bathymetric surfaces for client.
  Software used: Autoclean, QPS Qimera, QPS processing manager, Surfer. Global Mapper.

- **Lead MBES Data Processor/online syrveyor (3month Nov 2021 – Jan 2022 Dakar).**
  Employer: TDI Brooks International.
  Client: BP. British petroleum's oil fields in Senegal.
  Project's name: Senegal Yakaar Teranga.
  Party chiefs on board: Cameron Wythe, Daniel Brooks.
  Description of performed work.
  Worked on board RV "Proteus" as a lead data processor.
  Processed data in Caris Hips and Sips. 11.4, prepared bathymetric and backscatter surfaces for client. MBE calibration.
  During geotechnical and environmental works worked as an online surveyor, positioned vessel on a target using WInFrog software. SVP cast (configuration, deploy, processing and uploading casts to SIS an HiPAP software).
  Software used: Caris 11.4, SIS, WinFrog. DataLog express.
  Hardware used: Kongsberg EM122, MRU5+, HiPAP 501, Sub-bottom profiler, C-Nav and Seapath GPS receivers.

- **Lead MBES Data Processor/online surveyor (2month Sept 2021 – Oct 2021 Trinidad and Tabaco).**
  Employer: TDI Brooks International.
  Client: BHP. BHP's oil fields In Trinidad and Tabaco.
  Project's name: Calypso project.
  Party chiefs on board: Cameron Wythe, Daniel Brooks.
  Description of performed work.
  Worked onboard RV "GYRE" as a lead data processor.
  Processed data in Caris Hips and Sips. 11.4, prepared bathy and backscatter surfaces for client. MBE calibration as well.
  During geotechnical and environmental works worked as an online surveyor, positioned vessel on a target using WInFrog software. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).
  Software used: Caris 11.4, SIS, WinFrog. DataLog express.HiPAP,

  Hardware used: Kongsberg EM302, MRU5+, HiPAP 501,Sub-bottom profiler, C-Nav and Seapath GPS receivers.

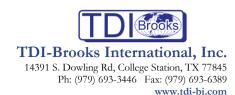- **Lead MBES Data Processor (2 months, 2021)**
  Employer: GeoTeam.
  Client: Vodafone.
  Project's name: Thetis Submarine cable systems.

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Description of performed work.

Worked onboard SV "Urbano Monti" as a Data Processor in Qimera software.

Processed MBES data for a cable route, prepared contours and surfaces, calculated slopes. Performed MBES survey, on shallow water using a small rubber boat with GeoSwath software and equipment onboard, processed collected data in GeoSwath software. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).

Software: Qincy, SIS, Qimera, HiPAP, Global mapper, Valeport. DataLog express, GeoSwath.

Hardware: KongsbergEM 302, HiPAP 500, SVP Valeport.

- **Lead MBES Data Processor (2 months, 2021)**
  Employer: GeoTeam.

  Client: Alcatel, Sipartech.

  Description of performed work.

  A cable route survey between Italy, France and Spain.

  Worked onboard SV "Urbano Monti" as a Data Processor in Qimera software.

  Processed MBES data for a cable route, prepared contours and surfaces, calculated slopes. Performed MBES survey on shallow water using a small rubber boat with GeoSwath software and equipment onboard, processed collected data in GeoSwath software. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).

  Software: Qincy, SIS, Qimera, HiPAP, Global mapper, Valeport. DataLog express, GeoSwath.

  Hardware: KongsbergEM 302, HiPAP 500, SVP Valeport.

- **Online Surveyor (South Africa, 1 month, 2021)**
  Employer: GeoTeam.

  Client: Huawei, Orange.

  Description of performed work.

  A cable route survey in South Africa.

  Worked onboard OGS "Explora" as online surveyor in PDS2000 software. Performed MBES survey on a cable route used PDS2000 and GeoSwath software. Also performed survey on shallow water using a small hydrographic boat with the survey equipment onboard such as MBES and SSS. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).

  Software: Qincy, SIS, Qimera, HiPAP, Global mapper, Valeport. DataLog express, GeoSwath.

  Hardware: KongsbergEM 302, HiPAP 500, SVP Valeport.

- **Lead MBES Data Processor (Belgium, 2 months, 2020)**.
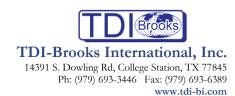 **Employer:** GEO XYZ**.**

  Client: Elia Group.

  Description of performed work.

  Worked for GEO XYZ onboard R/V Geo Ocean II as a Lead Data Processor on a Wind farm park in Belgium. Processed MBES data using Autoclean and Qimera software. Smoothed SSS data using QINSy data processing manager   software.   Data   QC.

  Software used: Autoclean, QPS Qimera, QPS processing manager, Surfer. Global Mapper.

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- **Lead MBES Data Processor / Online Surveyor (West Africa, 5 months, 2019-2020).**
  Employer: TDI Brooks International.
  Client: TGS, Petro Data, Shell.
  Description of performed work.
  Onboard TDI Brooks International R/V GYRE. Completed extensive survey of a large area on the continental shelf off West Africa on depths over 4000m. Processed data using Caris11 Hips/Sips software, operated SIS and WinFrog acquisition software as online surveyor. Extensive experience with multibeam and sonar acquisition, processing and interpretation. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).
  Software used: Caris 11, SIS, WinFrog. DataLog express. HiPAP**.**
  Hardware used: Kongsberg EM302, MRU5+, HiPAP 500, Sub-bottom profiler, C-Nav and Seapath GPS receivers. Valeport SVP, MiniSVS.
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- **Lead MBES Data Processor / Online Surveyor (West Africa, 6 months, 2018-2019). TDI Brooks International.**
  Employer: TDI Brooks International.
  Client: TGS, Petro Data, Shell. (Multi-client project)
  Description of performed work.
  Onboard TDI Brooks International R/V GYRE. Completed extensive survey of several large areas on the continental shelf off West Africa on the depth more than 4000m. Processed data using Caris11 Hips/Sips software, operated SIS and WinFrog acquisition software as online surveyor. Extensive experience with multibeam sonar acquisition, processing and interpretation. SVP cast (configuration, deploy, processing and uploading casts to SIS and HiPAP software).
  Software used: Caris 11, SIS, WinFrog. HiPAP, DataLog express.
  Hardware used: Kongsberg EM302, MRU5+, Sub-bottom profiler, C-Nav and Seapath GPS receivers.

- **Lead MBES Data Processor / Online Surveyor (Netherlands,(6 months, 2018). Braveheart Marine.**
  Employer: Braveheart Marine.
  Client: Van Oord, Van Den Herik Sliedrecht. (multi-client project)
  Description of performed work.
  Worked for Braveheart marine company as Lead Surveyor and Data Processor on board research vessels such as RV Guardian, RV Profiler, RV Freedom. Performed a variety of work such as cable route survey between wind farms and wind generators at Deutsche Bucht field, survey for dredgers and general coverage survey using multibeam and single beam echo sounders. Work was performed for different clients such as Boskalis, Vanord and Van Den Herik Sliedrecht and for different projects such as Zandvoort, Deutsche Bucht Wind Warm Park, and DOLWIN-3 Cable Area Scour Protection. Data was collected and processed on board small survey vessels in online mode, then sent to Client. Performed calibration and verification for survey equipment: MBES, SBES, GPS, MRU, etc. **Software used:** Autoclean, QINSy, Autopatch.
  Hardware used: Teledyne Reson SeaBat T50-R,EA-400, Seabat 8125H, R2 Sonic, Valeport MiniSVP.

- **Online Surveyor (Mediterranean Sea, (5 months, 2017-2018). Lighthouse Geo SpA.**
  Employer: Lighthouse Geo SpA**.**
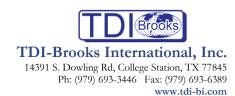 **Client:** IGI Poseidon.
  Description of performed work.
  Worked On board RV Odin Fender as Online Surveyor on the IGI Poseidon (IGI001) project. Tasks included surveying a cable route between Greece and Cyprus on deep water over 3000m, vessel positioning for coring samples as well.
  Software used: QINSy and MBE authorized software for data acquisition.
  Hardware used: C-Nav 3050, C-Nav 1010 Hydrins, CHIRPIII, Transceiver Unit mod. BEN CHIRP III DUAL CH, APOS, TSS MAHRS, IXSEA ROVINS, ELAC 3130, R2Sonic 202, Valeport MiniSVP, Valeport SVS.

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- **Online Surveyor (Black Sea, 2 months, 2017). <u>Subsea Survey Solutions.</u>**
  Employer: Subsea Survey Solutions**.**
  Client: <u>Gazprom.</u>
  Description of performed work.
  On board MV Heather sea performed positioning of the vessel to the coring location for sampling, using USBL beacons and EIVA NaviPac Software.
  Software used: EIVA NaviPac, APOS software for HiPAP 501.
  Hardware used: Kongsberg SeaPath 330, 2x C-Nav 3050, Seatex MRU5, MRU5+, HiPAP 501.

- **Quality Control Hydrographic Surveyor (Baltic Sea, 5 months, 2017). Techno Resource International.**
  Employer: Techno Resource International. http://techno-resource.com/
  Client: Gazprom.
  Description of performed work.
  Survey data quality control. Checked and controlled bathymetric data and volume of inertial materials. Work was performed for construction of a terminal for reception, storage and regasification of liquefied natural gas in the Baltic Sea Kaliningrad region of the Russian Federation.
  Software used: QINSy, Qloud, AutoCAD.

- **Surveyor (Black Sea, 2 months, 2016). <u>MG3</u>**
  Employer: MG3.
  Client: Black Sea Oil and Gas.
  Description of performed work.
  On board the drilling vessel MV Ocean Spirit as Online Surveyor on the project Anna and Donia Development, in Romanian waters of the Black Sea. Seabed clearance survey for extracting the platforms Anna and Donia. Vessel positioning for coring samples and for drilling test gas condensate holes. Box corer, grabs and gravity corer operations. The project name is Anna and Donia Development**.**

  Softwareused:QINSy,APOS.
  Hardware used: MBES Reson SeaBat 7150 F, Sub Bottom Profiler Knudsen SHIRP 3260, Magnetometer SeaSpy 2, Gravimeter Chekan, Geometrics G-882, Kongsberg HiPAP 500, Sonardyne Ranger 2 USBL System, Kongsberg MST 319, Sonardyne 8271 WSM 6 Transponder.

- **Survey Engineer/Navigator (Caspian Sea, 10 months, 2015-2016). <u>Lighthouse Geo SpA.</u>**
  Employer: Lighthouse Geo SpA.
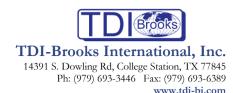 **Client:** NCOC, Saipem.
  Description of performed work.
  Onboard different pipelaying barges such as Castoro 12, Bautino2, Castoro 16. Performed anchor handling operations, during a pipelaying and backfilling of the pipe operations. Configured and installed navigation and telemetry equipment on multicast and barges. Monitoring and recording position of the pipe in the trench. Daily reports. It was a big project for the oil and gas industry of Kazakhstan.
  Software used: QINSy and QINSy tag display.

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Hardware used: Veripos LD5, C-Nav 3050, Trimble SPS 461, Gyro – Meridian, Hemisphere V100, V103.V112.ADL Vantage 12.5k, 25k; EDL-2 12.5k, 25k, Valeport Midax SVX 2**.**

- **Survey Engineer/Party Chief (Russian sector, 4 years, 2012-2016). <u>LLC Fertoing.</u>**
  Employer: LLC Fertoing.
  Client: Gazprom, Rossmorport, Nornikel.
  Description of performed work.
  I worked for Fertoing for nearly 4 years. I started as a Hydrographic Engineer and rose up to become a Party Chief. During that time, I worked on various projects in Russia such as Sakhalin 3 and on the Port of Sabetta. Mainly I did survey for dredgers in ports and harbors. I participated in the dredging of the port of Sochi during preparation for the Olympic Games in 2014. During my time at the company, I obtained a wealth of experience in the field of dredging and data processing, using many different pieces of equipment and software. The main hydrographic software I used were QINSy and Cloud.

  Survey Engineer/Party Chief (Russian sector, 2 years, 2010-2012).
  <u>Ministry of Transport of Russian Federal State Unitary Hydrographic Department.</u>
  I worked for this company for 2 years after graduating from the Academy. While working for this company, I got acquainted with hydrographic equipment and GPS receivers. I started work as a Junior Engineer and rose up to the position of Party Chief. I participated in many projects, the main of them being linear surveying work for the Northern Sea route**.**

EDUCATION

Admiral Makarov Maritime State Academy, Saint-Petersburg, Russia (2004-2010) Hydrographic engineer.

PROFESSIONAL TRAINING AND CERTIFICATIONS

- Bosiet 2022