# **Wahyunan Andika**

## Software Developer

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**SUMMARY**

Results-oriented Hydrographic Surveyor with 3 years of experience in offshore surveying seeking to transition to a career in software engineering. Passionate about software development and able to work independently and under pressure to meet tight deadlines. Strong problem-solving skills and a demonstrated ability to learn new technologies quickly.

**EDUCATION**

**Hacktiv8** **Jakarta, Indonesia**

*Full Stack JavaScript Immersive Program October 2022 – March 2023*

**Institut Teknologi Sepuluh Nopember** **Surabaya, Indonesia**

*Bachelor of Engineering September 2015 – September 2019*

**WORK EXPERIENCE**

**PT. Geotindo Survey Service Jakarta, Indonesia**

*Hydrographic Surveyor and Offshore Surveyor October 2019 – October 2022*

* Drafting As Found, As Built pipeline map, bathymetric map, topographic map.
* Collecting geophysical, tide, bathymetric, GNSS, topographic and processing the data

**SKILLS**

**Language:** JavaScript

**Front End:** React JS, Redux, Vue, Pinia, React Native, HTML & CSS, Apollo Client

**Back End:** Node JS, Express, Sequelize, PostgreSQL, GraphQL, Apollo Server, MongoDB, Redis, Rest API

**Modelling Software:** Matlab, Generic Mapping Tools, Surfer

**Mapping Software:** Autocad Map3d, ArcGIS, ENVI, Hypack, Kongsberg, HydroPro, GAMIT-GLOBK, GravSoft

**Mapping Tools:** GPS Hemisphere, Multibeam Echosounder (Kongsberg M3, EM 2040), Singlebeam Echosounder (Kongsberg EA440), SMC Motion Sensor System, Gravimeter (Scintrex CG-V), Theodolite, Waterpass, and Total Station.

**PROJECTS**

[Taco Smell Mobile Version](mailto://expo.dev/@dikaa/tacosmells?serviceType=classic&distribution=expo-go) *(February 2023)*

A clone from web Taco Bells mobile based.

*Software: Node JS, Express, Sequelize, PostgreSQL, REST API, React-Native, Redux, HTML & CSS, Apollo Client, GraphQl, MongoDB, Redis*

[Taco Smells](https://gc1-p3-dika-user.web.app/) *(February 2023)*

A clone from web Taco Bells.

*Software: Node JS, Express, Sequelize, PostgreSQL, REST API, React, Redux, Pinia, HTML & CSS*

[NBA MVP Stats](https://nba-stat-ip-dika.web.app/) *(February 2023)*

Statistic for NBA MVP Nominee for every match and can compare to each players.

*Software: Node JS, Express, Sequelize, PostgreSQL, REST API, Vue, Pinia, HTML & CSS*

**Inspection, Maintenance and Repair for Platform, Pipeline and Stations on Ardjuna Field, Pertamina Hulu Energi Offshore North West Java, West Java, Indonesia**

*( May 2021 - July 2021) (August 2021 - October 2021) (November 2021 – January 2022) (March 2022 – June 2022) (July 2022 – August 2022)*

I led the survey team during projects and was responsible for drafting anchor patterns, as-found and as-built leak maps, anode and debris maps, and setting up and monitoring underwater and ship positions during anchor jobs and underwater platform, pipeline inspection.

*Software: HydroPro, Autocad Map, APOS*

*Tools: GPS Hemisphere, Teledyne GyroCompass, Kongsberg HiPAP, Kongsberg C-Node Micro*

**Post dredging survey for Jetty Installation at Refinery Unit VI Balongan, Pertamina, Balongan, West Java, Indonesia  *(****April 2021)*

I was responsible for setting up single-beam and multi-beam echo sounders, sub-bottom profilers, tide gauges, and tide observations, as well as drafting bathymetric maps.

*Software: Hypack, Kongsberg, Autocad Map*

*Tools: GPS Hemisphere, Multibeam Echosounder (Kongsberg M3), Singlebeam Echosounder (Kongsberg EA440), SMC Motion Sensor System, Tide Gauge*

**Pre trenching survey for Single Point Mooring Installation at PT. Pertamina Labuhan Deli, Belawan, North Sumatra, Indonesia  *(****December 2020 – March 2021)*

I was responsible for setting up positioning equipment and assisting the position of the barge dredger during the pre-trenching survey.

*Software: HydroPro, Autocad Map*

*Tools: GPS Hemisphere*

**Flexible Pipeline Installation EPCI LLB LLE, PT. Pertamina Hulu Energi Offshore North West Java, West Java, Indonesia** *(August 2020 – September 2020)* I was responsible for setting up single-beam and multi-beam echo sounders, sub-bottom profilers, positioning equipment and assisting the position of the anchor handling tug and collecting depth and geophysical data during the flexible pipeline installation and post laying flexible pipeline, as well as drafting anchor pattern and as-laid flexible pipeline map.

*Software: HydroPro, Autocad Map, Kongsberg, Trimble, Hypack*

*Tools: GPS Hemisphere, Multibeam Echosounder (Kongsberg M3), Singlebeam Echosounder (Kongsberg EA440), SMC Motion Sensor System, Kongsberg HiPAP, Kongsberg C-Node Micro*

**Port Development and Jetty Installation at Pertamina Tuban at Mentoso, Tuban and ITS TeknoSains** *(July 2020 )*

I was responsible for collecting topographic, GNSS ,and levelling measurement data, and process it as well as drafting topographic and contour map.

*Software: Trimble, Autocad Map*

*Tools: GPS Trimble, Nikon Total Station, Nikon WaterPass*

**Repair 20’’ pipeline Balikpapan-Penajam Pertamina RU V Refinery, Balikpapan, East Kalimantan  *(****Novemberl 2019 – January 2020)*

I was responsible for drafting anchor patterns, as-found and as-built leak maps, and setting up and monitoring underwater and ship positions during anchor jobs, repair and trench pipeline.

*Software: HydroPro, APOS, Autocad Map*

*Tools: GPS Hemisphere, Teledyne GyroCompass, Kongsberg HiPAP, Kongsberg C-Node Micro*

**Study Reclamation as alternative construction well site and terminal facility Pertamina Tuban at Mentoso, Tuban and ITS TeknoSains  *(****November 2019)*

I was responsible for setting up tide gauge, collecting topographic, GNSS , levelling measurement data and tide observation, and process it as well as drafting topographic and contour map.

*Software: Trimble, Autocad Map*

*Tools: GPS Hemisphere, Multibeam Echosounder (Kongsberg M3), Singlebeam Echosounder (Kongsberg EA440), SMC Motion Sensor System, Tide gauge, Nikon Total Station, Nikon Waterpass*

**Pre dredging survey for Jetty Installation at Refinery Unit VI Balongan, Pertamina, Balongan, West Java, Indonesia  *(****October 2019)*

I was responsible for setting up single-beam and multi-beam echo sounders, sub-bottom profilers, tide gauges, and tide observations, as well as drafting bathymetric maps.

*Software: Hypack, Kongsberg, Autocad Map*

*Tools: GPS Hemisphere, Multibeam Echosounder (Kongsberg M3), Singlebeam Echosounder (Kongsberg EA440), SMC Motion Sensor System, Tide gauge, Nikon Total Station, Nikon Waterpass*

**Complete Systematic Land Registration National Land Agency Tarakan, North Kalimantan, Indonesia  *(****July 2018 – August 2019)*

I was responsible for measure land area for maiking/updating land title deed, resolving dispute land, measure forest covert area for updating Tarakan border area map.

*Software: Autocad Map*

*Tools: GPS Handheld Trimble, Nikon Total Station, Nikon Waterpass*

**RESEARCH**

**Gravity measurement (session 2) for gravity and geoid modelling at Surabaya, East Java, Indonesia  *(****November 2018 – March 2019)*

I was responsible for collecting GPS data and gravity data during the observation, and process it as well as drafting Free-Air Gravity Map, Local Geoid Map for Surabaya City and made a Report and Journal.

*Software: Generic Mapping Tools, Trimble, Matlab, GravSoft*

*Tools: GPS Topcon, Gravimeter Scientrex CG-V*

**Continuous GPS measurement for deformation monitoring in Surabaya City, East Java, Indonesia session 3, 4 and 5  *(****April 2018, October 2018, August 2019)*

I was responsible for collecting GPS data during the observation, and process it as well as drafting Land Deformation Map and made a Report.

*Software: GAMIT-GLOBK, Generic Mapping Tools*

*Tools: GPS Topcon, GPS Trimble*

**Hydrographic, Aerial, and Topographic Maping for updating Sembilan Beach, Giligenting Island, Sumenep, East Java, Indoneisa  *(****July 2018)*

I was responsible for setting up tide gauge, collecting current, bathymetric, tides data and process it as well as visualization it and drafting bathymetric map.

*Software: Matlab, Hypack*

*Tools: GPS Topcon, Multibeam Echosounder (Kongsberg M3), Singlebeam Echosounder (Kongsberg EA440), SMC Motion Sensor System, Tide gauge, Nikon Total Station, Nikon Waterpass, DJI Phantrom Drone*

**Topographic and Aerial Mapping for updating Kedundung village border map, Mojokerto, East Java, Indonesia  *(****January 2018)*

I was responsible for collecting proper history of each street , topographic and GNSS data and process it as well as drafting the topographical map.

*Software: Autocad Map, Trimble, ArcGIS*

*Tools: GPS Topcon, GPS Trimble Handheld,Nikon Total Station, Nikon Waterpass, DJI Phantrom Drone*

**ACHIEVEMENT**

**4th Place ASEAN Oil Rig Competition Oil Fest 2016 University of Trisakti Indonesia  *(****December 2016)*

**ORGANIZATION**

* Member of Indonesian Geodesy Student Association (August,2016 – December 2018)
* Supervisor of Geosentric 2017 (February,2018 – December,2018)
* Staff Big Event of Himage ITS 2017/2018 (August,2017 – August, 2018)
* Head of Geosentric 2017 (February,2017 – December,2017)
* Staff Big Event of Himage ITS 2016/2017 (August,2016 – August, 2017)