

KWASI OFFEI-OWUSU

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PROFILE

Detail-oriented Geospatial and Hydrographic professional with a Master's degree in Geodesy and Geoinformatics and over 15 years of experience in GIS development, spatial data analysis, and marine survey operations. Proficient in the following tools: ArcGIS, QGIS, Python, AutoCAD, and Qinsy. Adept at managing geospatial projects, photogrammetry, and marine data processing. Strong communicator and team leader with cross-cultural experience in Germany, Ghana, and the UK. Passionate about turning complex geospatial data into actionable insights.

EDUCATION

March 2025

Master of Science (MSc), Geodesy and Geoinformatics (Specialization: Hydrography) | HafenCity University, Hamburg, Germany

- Thesis: Development of a Digital Bathymetric Model from Hydroacoustic and Photogrammetric Data for Hard to Survey Areas (Shallow and Ultra Shallow Areas).
- Mini Projects
 - Sediment Classification Using Supervised and Unsupervised Classification in Comparison to SBP Data Using Qimera and FMGT.
 - 3D Laser Scanning of the Monument Hannoverscher Bahnhof using Zoller + Fröhlich Imager 5010.

March 2016

Master of Science (MSc), Photogrammetry and Geoinformatics | Hochschule für Technik Stuttgart (HFT),

- Thesis: Comparison of ArcGIS 2D and 3D Visibility Analysis Tools Results with Real World Situation.
- Mini Projects
 - Population Density Analysis using ArcGIS
 - Contamination Analysis Using ArcGIS
 - Facility Documentation and Management for a Gas Network using ArcGIS
 - Landsat Image Classification using Erdas 2015
 - Synthetic Aperture Radar (SAR) Image Analysis for Urban Density and Agriculture using Erdas 2015

May 2007

Bachelor of Science (BSc), Geodetic Engineering | Kwame Nkrumah University of Science and Technology (KNUST), Ghana

- Project: GIS for Port and Harbours Infrastructure Management (Tema, Ghana)

PROFESSIONAL EXPERIENCE

ChartWorld GmbH — Hamburg, Germany

- DIGITAL DATA ANALYST (Aug 2022- Jul 2023)
 - Processed digital ENC data and managed releases on eGlobe2 ECDIS.
 - Installed, tested, and maintained ACES global coverage updates.

- Released additional marine publications and ensured proper data archiving.
- Conducted QA testing using QGIS and SQLite.

Centre for Geospatial Intelligence Services – Accra, Ghana

- GEOSPATIAL APPLICATION DEVELOPER (MAY 2017 – OCT 2019)
 - Developed geospatial systems and conducted field surveys.
 - Led project to build a revenue collection application using ArcGIS for TDC Ghana.
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ECOWAS Coastal and Marine Resources Management Centre – University of Ghana

- GEOSPATIAL ANALYST (MAR 2016 – MAY 2017)
 - Performed photogrammetry, surveying, and GIS application implementation.
 - Supported regional marine and coastal resource management.
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Geodata – Accra, Ghana

- ENGINEERING SURVEYOR (JAN 2010 – AUG 2014)
- Projects
 - Consultancy for the Systematic Surveying, Inventory and Title Registration of Properties in Osu, Ghana.
 - Systematic Surveying of Properties in Yayaso Town – New Abirem District.
 - Survey and Inventory of Properties in Dumasi Town, Bogoso for Golden Star Resources
- Activities
 - Development of an inventory database of parcels of land. Supervised its population, maintenance and update. Produced demarcation index maps and parcel plans using cartographic procedures. Performed and assisted in all survey related activities.
- Project
 - Consultancy for Newmont Ghana- Ahafo Roads Project
- Activity
 - Execution of topographic survey of 13km proposed site for dual carriage road construction
 - Production of topographic map, longitudinal sections and cross sections
 - Production of 3D model

Lands Commission of Ghana

- SURVEY TECHNICIAN – NATIONAL SERVICE (FEB 2009 – AUG 2009)
 - Surveying of parcels land, registration of parcels of land, execution of quality control on documents submitted for the registration of parcels of land

Warner Land Surveys – London, United Kingdom

- ENGINEERING SURVEYOR (SEP 2007 – AUG 2008)
 - Establishment of controls and datums, setting out/staking out, elevational surveys, sectional surveys, vertical deformation measurements

Ghana Ports and Harbours Authority (GPHA), Hydrographic Department – Tema, Ghana

- Industrial Trainee (JULY 2006 – SEP. 2006)

- Assisted in the execution of hydrographic surveys and production of hydrographic survey maps of Tema harbour
- Assisted in the survey of landed property within the harbour.

TECHNICAL SKILLS

- **GIS & Survey Tools:** ArcGIS, AutoCAD, Carlson, QGIS, Leica & Sokkia RTK, Digital Levels, GPS Systems
- **Photogrammetry & Remote Sensing:** Agisoft Metashape, Pix4D, Drone Deploy
- **Programming & Databases:** Python (Intermediate), MySQL (Intermediate)
- **Productivity Tools:** MS Word, Excel, PowerPoint, Access, MS Project

CERTIFICATIONS

- Member, Ghana Institution of Surveyors
- Certifications in Language Knowledge

LANGUAGES

- English – Native
- German – A2 (Reading & Writing), Elementary (Speaking)

LEADERSHIP & AFFILIATIONS

- Project Lead – Systematic Land Title Registration & 13km Road Survey Project