

# Jeff Dacosta Osei

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**DOB:** 24/02/1994

**Place of Birth:** Kumasi

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## OBJECTIVE

Geomatic Engineer with 5 years of experience in Land surveying, engineering surveying, road design and construction, drainage design and construction, GIS for spatial analysis, Remote Sensing for mapping, Geological mapping, Geodesy, Photogrammetry and Cartography. Possess a B.Sc. in Geomatic Engineering and M.Sc. in Road and Transportation Engineering from KNUST. Seeking to leverage my expertise in road and drainage design, environmental management, Construction, engineering surveying, Geological mapping, leadership abilities, and Spatial analysis competency in the role as a Geomatic Engineer, road and transportation engineer and a GIS and remote sensing expert.

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## WORK EXPERIENCE

02/2021 - Present

### **Senior Technician, University of Energy and Natural Resources (UENR) School of Geosciences, Sunyani, Ghana**

Responsibilities: Practical lectures and training for students

- Worked with Professors and researchers to ideate, create, maintain, and update Geo-spatial data, working primarily with GIS and remote sensing methodology for spatial analysis.
- Using drone to capture and process spatial data using techniques of Photogrammetry.
- Training students and researchers in the application of land surveying, GIS and Remote sensing for Construction, Design, geological mapping and civil works in the industry and research area.
- Engineering surveying technician.

10/2021 - Present

**Geometric Designer, GeoDrone Services and GeoApex Ghana Limited**

Project: **Busunu to Daboya culvert sizing and schedule**

Responsibilities;

- Watershed modelling using ArcGIS for Discharge Computation.
- Developing drainage and Culvert Schedules for road construction.
- Culvert and drainage Sizing using AutoCAD civil 3D and Excel
- Alignment design, Profile plotting and volume computation for quantities.

10/2021 - 02/2022

**Geometric Designer, GeoDrone Services and GeoApex Ghana Limited**

Project: **Rehabilitation of the Daboya-Mankarigu road**

Responsibilities;

- Watershed modelling using ArcGIS for Discharge Computation.
- Developing drainage and Culvert Schedules for road construction.
- Culvert and drainage Sizing using AutoCAD civil 3D and Excel
- Drainage and road design in AutoCAD Civil 3D.
- Alignment design, Profile plotting and volume computation for quantities.

05/2020 - 02/2022

**Geomatic Engineer, Top International Engineering Corporation (TIEC), Greater Accra-Asutsuare, Ghana**

Project: **Modification and Rehabilitation of the Kpong Irrigation Scheme**

Responsibilities;

- Design of Canals, Drains and roads using AutoCAD civil 3D and computer aided surveying system (CASS)
- Drainage and road construction, earth works, raising of embankment, Excavation, fixing of culverts.
- Setting out of concrete levels and alignment for canals and roads.
- Setting out and picking points using RTK.
- Processing of survey data using Computer aided survey system (CASS) in AUTOCAD.
- Provision of Sectional Drawings for roads, canals, drains and creeks.
- Alignment design, Profile plotting and volume computation for quantities.

08/2019 - 05/2020

**Geomatic Engineer, Land And Homes Consult (LHC),  
Kumas-Gyinyase, Ghana**

Responsibilities:

- Production of Cadastral Plans and Site plans.
- Drone surveying
- Production of orthophoto for layout design.
- Land demarcation and setting out of Property Boundaries.

08/2018 - 08/2019

**Teaching and Research Assistant-NSS Personnel,  
KNUST, Kumasi Ghana**

Responsibilities

- Worked with lecturers and researchers to ideate, create, maintain, and update Geo-spatial data, working primarily with GIS and remote sensing methodology for spatial analysis.
- Using drone to capture and process spatial data using techniques of Photogrammetry.
- Training students and researchers in the application of land surveying, GIS and Remote sensing for geological mapping in the industry and research area.
- Engineering surveying technician.

03/2015 - 05/2017

**Survey assistant/ Ghana Highway Authority, Kumasi**

Responsibilities:

- Gathering of spatial data from field using survey equipment
- Setting out and raising embankments of roads using Survey Instruments
- Road Design using AutoCAD CIVIL 3D

**Geomatic Engineering Intern, / Municipal Assembly,  
Obuasi**

- Gathering of data from field to produce map, setting out and demarcation.

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**EDUCATION**

2014 - 2018

**Bachelor of Science in Geomatic Engineering,** Kwame Nkrumah University of Science and Technology, Ghana

**Thesis:** Monitoring of Ghana's Forest Reserves using Google Earth Engine

09/2019 – 05/2022

**Master of Science in Road And Transportation Engineering,** Kwame Nkrumah University Of Science And Technology, TRECK, Ghana

**Thesis:** A resilient flood control drainage system for road service Areas: A case study of the Odaw River Basin in Accra

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## ADDITIONAL SKILLS

**Microsoft Office package:** Microsoft Word, Excel, Access

**Database operation:** Microsoft Office Access, My SQL, Postgre SQL

**Statistical operation:** SPSS, STATA, Minitab

**Programming:** C++, C#, SQL, HTML, Python, JavaScript, MATLAB, R

**Engineering, GIS and RS Software:** ArcMap, QGIS, ERDAS Imagine, PCI Geomatica, AutoCAD, computer aided surveying system (CASS) for AutoCAD, AutoCAD Civil 3D, Surpac, SNAP, ILWIS, Google earth engine, Global Mapper, ENVI, Geoserver, SNAP toolbox

**Equipment:** Total station, automatic Level, RTK(GPS), Theodolite, LIDAR Scanner, Survey Drones.

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## REFERENCES

Dr. Akwasi Afrifa Acheampong  
Snr.Lecturer  
KNUST,Dept. of Geomatic Eng.

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