

AHORSU Harriet Atsufui

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OBJECTIVE

To work as a Geospatial Analyst on diversified and creative projects

TECHNICAL SKILLS

Unmanned Aerial Vehicle (Drone) Mapping

- Preparing flight plans for mapping with Unmanned Aerial Vehicles (UAV)
- Automated and controlled flights with UAV for topographical maps and 3D modelling
- Processing UAV images to orthophotomaps, shapefile (SHP), Computer-assisted Drawings (CAD), and Digital Terrain Models (DTM)

Geographic Information Systems (GIS)

- Developing and managing Geographic Database (geodatabase)
- Generation of site plans
- Import and export of vector and raster datasets to and from GIS environment in CAD, SHP, JPEG, TIFF, PDF and other formats
- Creating topographic maps, land use maps, orthophotos, DTM, contours and more from geodatabase and satellite images

Software

ArcGIS, QGIS, Erdas Imagine, Agisoft Photoscan, Photomodeler, AutoCAD, Penmap

Survey Instruments

Total Station, Differential GPS equipment, Digital Plane Table (DPT), Handheld GPS and UAV

EMPLOYMENT HISTORY

Kwame Nkrumah University of Science and Technology, Kumasi

Position : Assistant Lecturer

Duration : October 2022 to date

Core Responsibilities : - Teaching Photogrammetry, basic land surveying and land management courses
- Providing services in aerial mapping and land surveying in and outside the university community
- Participating in research on geodata collection and geodata processing

Kwame Nkrumah University of Science and Technology, Kumasi

Position : Principal Technician

Duration : June 2014 – October 2022

Core Responsibilities : - Assisting students with land surveying and photogrammetry practical tasks
- Managing Photogrammetry lab and supervising use of equipment
- Preparing and delivering tutorial lessons

Target Point Consult

Position : Plot Survey Team Leader/ GIS Officer

Duration : March 2012 – July 2012

Core Responsibilities : - Supervising survey of 600 plots of land
- Supervising demarcation of 450acre land
- Creation and management of geodatabase of plots, farms and building owners
- Plotting and printing of maps
- Preparing progress reports

Project : Perseus Mining Ghana Limited's Land Take Project in Ayanfuri, W/R, Ghana

CTK Network Aviation Surveys (GEOSYS) Limited, Accra

Position : Assistant Project Coordinator & Administrator

Duration : June 2011- February 2012

Core Responsibilities : - Topographic and Cadastral surveys
- Creation and management of geodatabases
- Plotting and printing maps
- Training staff on use of equipment and software
- Preparing and maintaining reports, spreadsheets, presentations and correspondence
- Liaising with staff from other departments and external contacts
- Attending meetings and taking minutes
- Managing and maintaining budgets
- Preparing payment vouchers, payment schedules invoices and checks

Project : Systematic Land Title Registration in Awutu-Senya District by the Millenium Development Authority (MiDA), Ghana

Geoenviron Consult, Kumasi

Position : GIS Officer/ Field Team Coordinator

Duration : April 2010 – May 2011

Core Responsibilities : - Surveying plots of urban land

- Plotting and printing site plans
- Collating spatial data and land ownership data for creating a geodatabase
- Managing geodatabase of plots
- Creating and updating activity schedules for project personnel
- Training staff on use of equipment

Project : Systematic Land Title Registration in Kumasi for the Land Administration Project (LAP), Ghana

Kwame Nkrumah University of Science and Technology, Kumasi

Position : Teaching Assistant (National Service Personnel)

Duration : September 2007 – July 2008

Core Responsibilities: Taking students through practical assignments and tutorial notes

PROFESSIONAL MEMBERSHIP

1. Member, Ghana Institution of Engineers (GhIE)
2. Member, Ghana Institution of Surveyors (GhIS)

EDUCATIONAL DETAILS

Course	College/University	Year
MPhil Geomatic Engineering	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana	2016-2020
BSc. Geodetic Engineering	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana	2003-2007
Senior Secondary Certificate, Science	St. Roses Senior High School, Akwatia, Ghana	1999-2001

CONTINUOUS EDUCATION COURSES

Course	College/University	Year
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The Political Economy of Land Governance in Africa	University of Western Cape, South Africa	2019
UAV Pilot Certification and Licensing	University of Mines and Technology, Tarkwa/ Ghana Civil Aviation Authority	2019/2020

ACADEMIC PROJECTS

Mapping Encroachment On Railway Lines Using Photogrammetry

An orthophotomap was created showing structures which have encroached on the railway's right-of-way. UAV Aerial images were used to create the orthophoto. The data acquired is useful for estimating compensation and also as a base map for monitoring encroachment and future developments along the railway.

Generation Of Digital Terrain Model (DTM) From Paper Contour Map

Software used : ArcGIS suite, Surfer

A DTM is a 3-dimensional representation of bare ground without any objects like trees and buildings. Using a contour map of a section of KNUST campus, a DTM was created to give a visual depth-depiction of the terrain. This 3D model is useful in a broad range of applications such as flood hazard mapping, territory analysis and determining potential development sites.

PERSONAL DETAILS

Nationality : Ghanaian
 Languages Spoken : English and Twi
 Permanent Address : C/O David Ahorsu
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 Hobbies : Reading and travelling

REFERENCES

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