

RANSFORD NII AYITEY WELBECK

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PERSONAL PROFILE

As an enthusiastic and highly motivated software engineering graduate with a solid foundation from the prestigious 1-year ALX Software Engineering programme, I have hands-on programming experience and a relentless passion for solving complex challenges. I bring a unique blend of skills, knowledge, creativity, and dedication to any team. I pride myself on thinking outside the box and finding innovative solutions to complex problems. I am skilled at translating vision into high-quality code and driving project success through collaborative problem-solving. I am also a fast learner, ready to grasp new concepts and develop new skills. I seek a demanding role to utilise my abilities to contribute to the organisation's growth and success and further develop my skills.

KEY SKILLS

- Proficient in C, Python, JavaScript, Typescript, HTML and CSS
- Familiarity with databases such as MySQL
- Strong problem-solving and debugging skills
- Version control using Git and GitHub

PERSONAL PROJECTS

- Printf project (using C)
- Simple Shell (using C)
- Monty interpreter project (using C)
- Airbnb clone project (using Python, MySQL, HTML and CSS, Flask, JavaScript and RESTful API)

EDUCATION

ALX Software Engineering Programme **June 2022 - July 2023**
Specialisation: Back End Development
ALX (African Leadership eXchange)

M.Sc. Geo-Information Science and Earth Observation **August 2019 - September 2021**
Specialisation: Water Resources and Environmental Management
University of Twente, Enschede - The Netherlands

B.Sc. Geomatic Engineering (Second Class Honours) **August 2009 - June 2013**
Kwame Nkrumah University of Science and Technology, Kumasi - Ghana

West African Senior School Certificate Examination (WASSCE) **October 2005 - June 2008**
Accra Academy, Accra – Ghana

PROFESSIONAL EXPERIENCE

Geomatic Engineer **December 2016 - To Date**
Head of Land and Hydrographic Surveying Section
Ghana Hydrological Authority (Head Office), Accra - Ghana

- Supervising and coordinating topographic and bathymetric surveys for dredging, drainage designs, and coastal protection works across all zonal offices in the country.
- Supervising the computation of dredged material volumes.
- Ensuring that only properly inspected and calibrated measuring equipment are used on projects.
- Supervising the preparation of maps and drawings.
- Supervising the collection, manipulation, analysis, visualisation and storage of Geographic Information System (GIS) data.
- Supervising the delineation of catchments and channels using Digital Elevation Models (DEM).
- Supervising the preparation of land cover and land use maps using drone and satellite imagery.
- Training engineers and technical officers.

Project Surveyor

September 2016 - November 2016

Ace Solutions and Services Limited, Accra - Ghana

Client: Asanko Gold Mines

Project: Dynamite Pit and Waste Dump Farm Survey, Manso Nkran (Ashanti Region - Ghana)

- Prepared a plan for the execution of the project.
- Supervised four (4) survey teams.
- Supervised spatial data collection of farm boundaries with GNSS receivers to facilitate compensation processes.
- Processed survey data, plotted farms in Computer-Aided Design (CAD) software and determined the area of the various farms.

Project Surveyor

May 2015 - August 2016

Ace Solutions and Services Limited, Accra - Ghana

Client: Odebrecht Engineering and Construction & Andrade Guterrez

Project: Eastern Corridor Road Project, Yendi (Northern Region - Ghana)

- Performed topographic surveys.
- Established vertical and horizontal controls along the entire 209 km stretch of the project.
- Set out culverts, right-of-way, clearing limit, centreline, formation pegs, sub-base pegs, base pegs, and asphalt limits.
- Ensured that the levels and slopes for culverts after excavation were established for proper installation.
- Surveyed stockpiles of materials.
- Wrote weekly reports on work progress by documenting areas that had been filled to the design level and areas that had been cut to the design level.
- Trained survey technicians and assistants.

ACHIEVEMENTS

- Best sectional head for the year 2022.
- Effectively integrated the use of GIS and CAD software to replace paper-based activities and provided personal training for the technical staff to ensure a smooth transition.

REFERENCE

Mrs. Barbara Anne Defortse
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