

PERSONAL INFORMATION

Osman Osama Ahmed Ibrahim



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WORK EXPERIENCE

8 Oct 2017–8 Oct 2018

Road and Bridge Engineer

Ministry of Infrastructure and Transport, Khartoum (Sudan)

- Surveying works for roads
- Embankment works and soil testing
- Concrete and asphalt works
- Bridges reinforcement work
- Other related works

1 Oct 2018 – Present

Assistant Researcher Engineer

Hydraulics Research Canter-Ministry Of Water Resources, Irrigation-sudan Nile Street, East New Airport, +249511859700 Wad Madani (Sudan) hrc-sudan.sd

Responsibilities: During this period at HRC, my experience has covered broad areas such as Remote Sensing, Remote Sensing for Water resource, Geographic information System, Geographic Information System for Water Resource, Hydrology, Hydraulics, all surveying work.

projects and Their responsibilities were:

1) IFAD Project (From Africa to Asia and Back Again-2019/2020)-(Kassala state -sudan):

- Field Team Leader
• Survey works
• Flow measurement
• Soil moisture
• Metrological
• Processing and analysis of collected data and participating in preparation of data collection report.

2) Selection Of The Nile Gauging Site Upstream High Aswan Dam (Northern state-sudan) :

- GIS & Remote Sensing Specialist.
• Estimate historical changes of the river morphology using Satellite images and (NDWI) Normalized Difference Water Index method.
• works of land survey of study area and Hydrographic survey
• Processing and analysis of collected data and participating in preparation of data collection Report.



3) Hydrological and related catchment studies to support catchment management plans and infrastructure planning and development in South Darfur (South Darfur state):

- Field Team Leader
- Build a simple water allocation model for analysis of current and future water demand and use scenarios (water allocation/planning/management model) in the catchment and catchment water Balance model (hydrological model).
- Catchment delineation and mapping
- Hydrological analysis

4) Determine Cropped Areas in Gezira Irrigation Scheme Using Remote Sensing and GIS -(Gezira state-sudan):

- Field Team Leader.
- Classification of Image Satellite "Landsat 8" and "Sentinel" using Erdas imagine (maximum Likelihood classifier (MLC) and the object based image analysis (OBIA).
- Processing and analysis of collected data and participating in preparation of data collection report.
- GIS and Remote Sensing Specialist.

5) Determine Cropped Areas in Alrahad Irrigation Scheme Using Remote Sensing and GIS -(Gadarif state-sudan):

- Field Team Leader.
- Classification of Image Satellite "Landsat 8" and "Sentinel" using Erdas imagine (maximum Likelihood classifier (MLC) and the object based image analysis (OBIA).
- Processing and analysis of collected data and participating in preparation of data collection report.
- GIS and Remote Sensing Specialist.

EDUCATION AND TRAINING

2012–2017 **BSc (Honors) -first class Of Surveying Engineer**
Omdurman Islamic university, Khartoum (Sudan)

1 Oct 2018 – Present **Software Trainer at HRC Sudan**

- Training program on (GIS) and (RS) at Omdurman Islamic university(2014-2017).
 -Training program on Land Planning at General Authority for Sudanese Survey (2016)
 - Training program on Assorted devices, digital level, total station, GPS, level, Laser devices for survey Works Theodalite at Ministry of Infrastructure and Transport (2017).
 - Training program on Hydrological modelling (2019)
 - Training program on Python for GIS (2019)
 - Training program on QGIS (DEC.2019 – JAN. 2020)

PERSONAL SKILLS

Mother tongue(s) Arabic

Foreign language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	C2	B2	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Communication skills Presentation: Developed ability to produce reports and presentations to a professional standard.
 Analysis & Evaluation: Proficient in assessing data and formulating solutions.

Organisational: Effective at time management and prioritising tasks to achieve deadlines.

I have good leadership skills, and very good communication and conversation skills, and i have ability to endure work stress and to fit in with new environments, i like teamwork as well.

- Strong surveying engineering experience and mathematical skills.
- outstanding analytical and land records Checking skills
- skilled in operating measuring instrument for conducting land survey
- willingness to travel to distant place and work in team environment
- Excellent attention to detail and awareness about job Responsibility

Organisational / managerial skills

- Lead fieldwork team.
- Build trust and good communication with the research stakeholder.
- Participate in Solving Problems and Obisticals relate to work.

Job-related skills

- **Surveying Engineering devices (*EXPERT*) :**
(Total station) – (Level) – (Digital Level) – (GPS Garmin) –(GPS RTK) – (ADCP) – (Echo sounding) – (Theodolite)
- **Surveying Engineering software (*EXPERT*) ::**
((AutoCAD) – (Arc GIS) – (ERDAS Imagine) – (Geomantic) – (surfer) – (google earth Pro) – (map source) – (GPS Utility) – (Global mapper) (eCognition developer46)
- **hydrology software (*Intermediate*):**
((HEC-HMS) – (HEC-GeoHMS) – (Hyfranplus) – (SWAT))
- **Microsoft Office Packages (*EXPERT*).**

References:

- **Prof . A. Abbas Elhag**
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