

# MOHAMED MUSA

## Hydrology Engineer

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### Profile

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I am a Hydrology Engineer with expertise in hydrological studies, hydraulic design, and flood risk management. Experienced in using AutoCAD Civil 3D, HEC-HMS, and StormCAD. I aim to contribute to sustainable water resource management and flood control projects.

### Key Qualifications

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- Bachelor's degree in civil engineering.
- knowledge in using Hydrology and Hydraulic Design Software (AutoCAD Civil 3D, HEC-HMS, HEC-RAS, StormCAD, SewerGEMS).
- Understanding of flood risk assessments, stormwater systems, and drainage system design.
- Effective Communication Skills, with experience in report writing and collaborating with project teams to ensure successful project outcomes.

### Professional Experience

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#### Integrated Group

Apr 2024 -Present

Hydrology Engineer| Full-Time

#### Roles and Responsibilities:

- Assisted in hydrological studies and hydraulic designs for stormwater systems and flood mitigation projects.
- Assisted in preparing reports and technical documents for project stakeholders

#### Bridge Engineering

Sudan, Des 2023 –Apr 2024

Hydrology Engineer| Full-Time

#### Roles and Responsibilities:

- Assisted in executing flood risk mitigation projects and stormwater drainage system designs.
- Supported the development and implementation of flood control measures and rainwater drainage solutions.

### Skills

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- **GIS** (Geographic Information System).
- **WMS** (Watershed Modeling System).
- **HEC-HMS**
- **Storm CAD, SewerGEMS** for design and modeling storm water conveyance system
- **HEC-RAS**
- Flow master, Culvert master for hydraulic design.

- **Hydrometrology Software**  
HYFRAN\_PLUS,
- **Computer:** MS Word, Excel, PowerPoint.
- **AutoCAD, Civil 3D.**

### **Certifications**

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- **AutoCAD Certificate** (Autodesk)
- **Civil 3D Certificate** (Autodesk)
- **ENGOSOFT TRAINING** – Hydrological Structures Design Course (Hydrological Study – Surface Runoff Modeling – Rainfall Runoff Simulation – Hydraulic Design of Culverts)

### **Languages**

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- **Arabic:** Native
- **English:** Good

### **Reference**

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#### **Eng. Mouez Osman**

Abdulaziz Al Bawardy Consultants- Riyadh Amana, Hydrology Studies

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