

C.V
MOHAMED NURELDEEN MOHAMED AHMED

Civil Engineer

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PROFESSIONAL PROFILE:

Dedicated Humanitarian Worker with a BSc in Civil Engineering and over four years of professional experience in WASH programs across emergencies, early recovery, and development contexts. Skilled in disaster risk reduction, emergency response, technical assessments, and capacity building. Proven ability to lead rapid response efforts, conduct technical studies, and coordinate disaster risk reduction strategies across NGOs, INGOs, private organizations, and donor-funded projects.

Expert in conducting environmental impact assessments, leading technical evaluations, and ensuring compliance with safety and building regulations. Proficient in developing and managing disaster response frameworks, rehabilitation programs, and civil infrastructure projects, including roads, bridges, and water systems. Strong background in designing, implementing, and overseeing emergency interventions with a focus on efficiency and sustainability.

Experienced in staff capacity building, providing technical guidance, and supervising engineering teams to enhance disaster preparedness and response effectiveness. I am proficient in data analysis, budget management, and project execution, with a keen ability to identify risks and implement mitigation strategies. I have exceptional skills in problem-solving, organizational leadership, and proactive decision-making to address critical challenges in disaster-affected areas.

PROFESSIONAL ACHIEVEMENTS:

As a dedicated humanitarian professional with over four years of experience in construction, basic infrastructure, WASH (Water, Sanitation, and Hygiene) programs, I have successfully led and implemented life-saving interventions in emergency, early recovery, and development contexts. My expertise spans disaster risk reduction, emergency response, technical assessments, and capacity building, with a proven ability to coordinate multi-sectoral projects and secure funding for critical humanitarian initiatives.

Currently serving as a Project Engineer Consultant with the UN Migration Agency (IOM) in Sudan, I oversee the planning, design, and implementation of construction and basic infrastructure projects, ensuring compliance with technical standards and local regulations. A key achievement includes implementing IOM new guesthouse prefab building, operation office, Dongola office, Atbara office rehabilitation, Wadi Halfa office rehabilitation, and all minor rehabilitation for the IOM Sudan Sub and the main office's.

Previously, as a WASH Consultant with IOM, I provided technical leadership in designing, implementing, and monitoring WASH and basic infrastructure activities in conflict-affected areas. I promoted the integration of disaster risk reduction, climate change adaptation, and gender-sensitive programming, ensuring sustainable and impactful interventions. I also led qualitative and quantitative data collection efforts to evaluate WASH interventions and inform evidence-based decision-making.

As a Roving Field Engineer with Relief International (RI), I managed the construction and rehabilitation of WASH infrastructure across North Darfur and Blue Nile State, ensuring compliance with national and international standards. I supervised the implementation of health, nutrition, and WASH projects, including the rehabilitation of water yards, hand pumps, and health facilities, benefiting IDPs and host communities.

During my tenure as a Civil Engineer with COOPI, I led the rehabilitation and upgrade of water resources in North Darfur, integrating water resource management with conflict mitigation strategies. I conducted community-level needs assessments, designed technical specifications, and supervised construction activities, ensuring the timely delivery of high-quality infrastructure.

Earlier, as a Project Sites Technician and Site Technician Assistant, I supervised the construction of irrigation wells, community forests, and rock check dams, contributing to climate resilience and sustainable resource management. I also facilitated capacity-building activities, including training on integrated water resource management (IWRM) and community-led total sanitation (CLTS).

My technical expertise extends to environmental impact assessments, disaster response frameworks, and civil infrastructure projects, including roads, bridges, and water systems. I have a strong track record in staff capacity building, budget management, and project execution, with a focus on efficiency, sustainability, and compliance with donor and government regulations.

PROFESSIONAL EXPERIENCE:

UN MIGRATION (IOM), Red Sea state, Port Sudan, Sudan;

Project Engineer Consultant, November 2024 – February 2025

- The Project Engineer Consultant for UN Migration (IOM) oversees the planning, design, and implementation of construction and basic infrastructure projects, ensuring compliance with technical standards and local regulations. Responsibilities include conducting technical assessments, preparing designs and budgets, supervising contractors, and monitoring construction progress to ensure timely delivery and quality. The role involves coordinating with

stakeholders, including local authorities, donors, and communities, to align projects with needs, while promoting sustainability and capacity-building initiatives. Additionally, the consultant meets health, safety, and environmental standards and provides technical guidance for project success and long-term impact.

- Prepare detailed and achievable strategies and activities for constructing core permanent shelters.
- Review and update the technical engineering plan and design of the core permanent shelter with the Local Government Unit (LGU) counterpart.
- Supervise, train, organize, and monitor field construction teams.
- Provide technical and quality control advice on the construction materials that will be procured for the project.
- Work closely with procurement/logistics personnel pertinent to timely delivery of construction materials.
- Prepare policies for on-site monitoring of ongoing construction activities.
- Plan and implement capacity-building and training activities for the IDPs regarding temporary shelter construction and maintenance.
- Overall responsible for surveying, designing, and quality control of construction/repair activities and ensuring timely implementation of construction/repair activities.
- Develop, manage, and implement an efficient billing system relative to the construction of transitional shelters.
- Attend meetings and coordinate with various key agencies, LGUs, and other government or international NGOs active in the shelter sector for matters about construction activities.
- Ensure technical compliance with GoP, donor, and IOM regulations in shelter construction and obligations.
- Prepare project progress reports for submission to the Project Management Team (PMT), indicating recommended project support actions as required/necessary.
- Liaison and negotiation with relevant government and non-government organizations and other institutions in the overall direction and implementation of the project.

UN MIGRATION (IOM), Red Sea state, Port Sudan, Sudan;

WASH Consultant (WASH technical services Consultant) WASH & Basic Infrastructure, January 2024 – May 2024

- Offer technical services, and support and contribute to supporting successful planning, implementation and monitoring of IOM's Water, Sanitation, and Hygiene promotion (WASH) and basic infrastructure activities in the designated Area of Responsibility in Sudan. Support through Providing technical inputs in design, implementation, monitoring, and evaluation of discrete WASH and infrastructure aspects of IOM's integrated emergency response and transition program, which addresses the immediate and long-term recovery needs of internally displaced people, refugees, and host communities affected by conflict and/or disaster caused by natural hazards and the adverse effects of climate change. working to promote the integration of disaster risk reduction, climate change adaptation, environmental protection, gender, Accountability to Affected Populations (AAP), and conflict-sensitive programming across WASH and basic infrastructure activities,
- The overall objective of this project is to contribute to improving access to life-saving and humanitarian assistance through an integrated multi-sectorial response. To provide WASH support ensuring targeted communities have equitable and improved access to safe water, and sanitation services, and increased knowledge and adoption of safe hygiene/solid waste management collection practices. To provide emergency WASH assistance upon the onset of any emergency within Sudan using IOM's pre-identified list of WASH emergency interventions that, through a flexible and adaptable project design, will enable IOM to address the most urgent WASH needs.
- Provide qualitative and quantitative data collection and design and implementation of quantitative and qualitative data collection tools.

RELIEF INTERNATIONAL (RI), North Darfur & Blue Nile, Sudan;

Roving Field Engineer, January 2023- February 2024

- I am Roving Field Engineer for the Emergency BHA Project Responsible for all of the Health, Nutrition, and WASH constructions of North Darfur (ND), and Blue Nile State (BNS) my core responsibility focusing on leading the implementation of ongoing projects (Construction and/or rehabilitation installation components) for IDPs, host community, and RI operation areas to meet and ensure the RI standards and the national WASH standards, depending on the context.
- Responsible for day-to-day coordination with the contractors and suppliers according to the needs and requirements on site, and organizing the field activities (planning and logistics arrangement with the log team); responsible for developing documents as per donor guidelines
- Preparing technical specifications for infrastructure projects including structural, architectural, sanitary, and electrical details of design drawings by consulting the relevant Sectorial offices and standards. To order the required material needed and control their use by the teams/contractors, and Follow-up contracts with contractors and sub-contractors in collaboration with the log team.

- Responsible for the overall supervision of the WASH and Building construction technical activities (water sources rehabilitation and development, construction activities, rehabilitation of health facilities, etc.), and Participating and supporting the designing of project facilities (health, WASH, and nutrition) and any activities related to water yards, hand pumps, or water distribution system rehabilitation or installation: removal, repairing, cleaning, and borehole drilling and rehabilitation: fishing, flushing, development, pump testing, hand pump platform construction or rehabilitation: apron, a drainage trench, soak away pit
- Prepare bills of quantities and estimation of project durations in consultation with the technical projects Managers, and Review and approve in consultation with technical project Managers all construction designs and establish/ensure technical specifications, drawings, designs, and guidelines are met according to the technical standards in materials and building/installation techniques.
- Conduct qualitative and quantitative data collection to evaluate WASH interventions, including designing and implementing tools specifically for gathering qualitative insights and quantitative metrics related to water, sanitation, and hygiene practices.
- Jointly with the technical staff of implementing partners and other relevant sector (WASH, Health, Nutrition) actors, updated detailed needs and resource assessments and revised designs of technical plans as necessary, taking into account practical aspects of implementation, long-term sustainable solutions, and relevant technical specifications and guidelines.

COOPI Cooperazione Internazionale, Kabkabiya, Sudan

Civil Engineer, September 2022 – January 2023

- I was a Civil Engineer for a USAID-BHA funded Project for Improving access to water resources through integrated water resource management, improvement of livestock conditions, and prevention and mitigation of inter-communal conflict through conflict mitigation and dispute resolution approach in North Darfur, my core responsibility focused on General awareness about IWRM, conflict resolution, and the importance of water resources and related resources, Formation of Water Resources Management Committee (WRMC), Mapping of water sources and water corridors by community participation at the field level, Visiting water resources, Rehabilitation/Upgrade of selected Water Resources identified in WRMP in targeted areas (Edalnbag, Adam regal, Bairka, Mistariha, Almodeeb) in kabkabiya locality, full training of committees in IWRM through professional facilitators from the Centre of peace studies the University of EL Fasher.
- Participated in needs assessments and reviews at the community level to determine interventions that are required, particularly those related to community water points in the Kabkabiya locality, Oversee and supervised the implementation of projects by efficiently controlling the quality of technical works during the design and construction of water supplies, including boreholes and water yards)
- Prepared detailed specifications for the invitation to bid for the construction of the designed infrastructure, and Provided information to Project Managers and the Head of Programs to verify that contractors, suppliers, and works were consistent with the project technical specifications and inform promptly of eventual deviations;
- Monitored activities and reported on project progress, and lessons learned during project implementation
- Developed all the project works (design plans, working drawings, technical specifications, bills of quantities, work plans, reports, and field mission requests) and shared in time with the PM, and Coordinate and oversee the works of the field team and reported to the PM
- Regularly monitor and follow up on the project's activities in the field locations, including site supervision of construction and rehabilitation in accordance with COOPI standards
- Draft reports on specific activities that have been carried out, in respect of COOPI's and USAID BHA guidelines.

Project Sites Technician, Roving May 2021-August 2022

- I was the engineer responsible for Supervising the implementation of project activities (affairs construction, irrigations well with the solar system, construction of nursery, community forest fencing, rock check dams) in Mellit, kabkabiya, sarfumra localities
- I Supervised and handed over to the community five haffir constructions, two irrigation wells with solar systems, and the construction of nursery and community forest fencing in Mellit locality.
- Four irrigation wells with solar systems, construction of nursery, and community forest fencing, and rock check dam in Kabkabiya locality.
- Four irrigation wells with solar systems and the construction of a nursery in sarf omra locality.
- Handed over project activities to the community which I supervised in the mentioned localities in coordination with the local government line administration and the water units attached to them.

Site Technician Assistant, Kabkabiya, March 2021-April 2022

- I was a site technician assistant in Kabkabiya locality, for a UNWFP-funded FFA/PSN project for Strengthening, the resilience of vulnerable communities to climate shocks and natural disasters through improved agriculture, water, and

natural resources management in North Darfur I was responsible for, Supervised implementation of project activities (PSN / CBT) in four clusters around kabkabiya locality (umlaut, jawrey, gergo, jaldama). Construction of four Irrigation wells in each of Umlaota and jaldama clusters including; solar power pumping system installation,

- Trained on VSLA, IGA, and Home gardening in gergo cluster, rock check dam construction in jawrey cluster, multi-purpose tree seedlings raising, out-planting pit/Negarim construction, and out-planting in Jeldama Cluster. Supervised of implementation of community forest fencing and nursery construction.
- Post distribution monitoring (PDM), made training for Enumerators in filling questionnaires for beneficiaries, with full supervision and reporting for (PDM) Operation. Distributed seeds and tools for project participants in all clusters.
- Community-Based Participatory Planning (CBPP) assessment for next year, effective planning with the participation of the community with other activities Market/Price monitoring, Establishment and management of complaint and feedback mechanisms.

UNITED NATIONS DEVELOPMENT PROGRAMME & VOLUNTARY NETWORK FOR RURAL HELPING AND DEVELOPMENT: Youth Volunteers Supporting Peace and Recovery in Darfur Project (YOVORED) Phase V; North Darfur, Sudan

Engineer, January 2022- December 2022

- With community participation, we made a proposal for village planning, and organising with community contribution to donor UNDP and the proposal won funding. Supervised the village planning, and organized the legalisation of residential plots in coordination with land and urban planning office kabkabiya locality. Supervised, and evaluated schools' construction in the village, and made assessments of needs for repair and rehabilitation.

Magdi Idriss for Contracting and Trading (Company), Zalingiei, Nertiti, Centre Darfur, Sudan

Site Engineer, February 2020 – December 2020

- I was the Engineer and Representative of the company in both Centre Darfur state and West Darfur
- My duties and responsibilities focused on coordinating procurement and supplying processes, estimating materials quantities, designing (BOQs) and supervising the implementation of construction sites, drag and brochures bidding on the level of the state, and attending operations of sort bidding which resulted in winning of medicine store of the ministry of health bid funded by UNICEF.
- I implemented the construction of a medicine store located in the Ministry of Health, Central Darfur Zalingiei which was funded by UNICEF, market livestock of the Ministry of Finances Central Darfur Nertiti locality, Health Centre of Ministry of Health, Central Darfur located in Fotey Village affiliated to delaygi locality, north zalingiei

VOLUNTEERING EXPERIENCE:

National Network for Humanitarian Action Localisation: El Fasher North Darfur, Sudan

Volunteer, August 2022 for two weeks (Remotely)

- I volunteered to Design a compost production Centre with a nursery for the University of El Fasher which consists of a Compost shelter, and compound other than the meeting room, an office, a store, and veranda, a VIP latrine with two drops, a Construction of a Nursery with full standard requirements, The Design complete file with drawings, specifications, and PoQs. The above designs are for the proposal.

SOS Sahel Sudan, Kabkabiya, North Darfur, Sudan

Volunteer, December 2019 to February 2020 (three month)

- I was a volunteer who worked under a project engineer to assist in the engineering works of the project (Project of Aqua 4 Darfur), and during my volunteering period, I contributed to supporting, Sand dam construction (sand dam, surface dam, and flat sand dam) in areas of Edalnabag and Alhaara East Kabkabiya, Shuba South Kabkabiya, Bormandi and Tabukeyna North Kabkabiya.
- Community training: (Water Management Integrated and Department of Natural Resource) the training inside areas of Wadie Bargo Basin to 14 committees from 93 communities in Cooperation with (houd Wadi Bargo) committee.
- Livelihood activities: seeds scattering projects in Fago pastures north Kabkabiya, Shuba south Kabkabiya, farm illustration, and trays of Aboudango.
- Water point rehabilitation: rehabilitation of Ameria Shareq station for human drinking and, Albeer Alhambra in north Kabkabiya to drinking human and animal.

Action Hands for Development, Kabkabiya, Sudan

Volunteer, January 2017 to March 2017 (three months)

- I was a Volunteer in the field of hygiene Promoter, Trained school clubs on hygiene promotions, hygiene campaigns, hand washing sessions, distribution of hygiene kits for girls at schools, supervised community-led total sanitation activities (CLTs)

EDUCATION:

- **Master of Science, Water Resource Development;** El Fasher University, Sudan, **Pursuing**
- **Bachelor of Science, Civil Engineering;** University of Nyala, South Sudan, 2018

CERTIFICATIONS, COURSES AND RELEVANT TRAININGS:

Training of Youth Volunteers, United Nations Development Programme (UNDP) North Darfur, Sudan, February - June 2022
Certificate, Integrated Drought Management: Monitoring and Early Warning. CapNet International Capacity Building Network. 2024

Certificate, Certificate of Registration / Engineering Number (Graduate engineer - Civil engineer)
Sudanese Engineering Council

Certificate, Generative AI Overview for Project Managers, PMI Project Management Institute 2023 online course.

AutoCAD course, University of Nyala, Sudan, March 2022

Certificate, Technical Project Management in water, sanitation, and hygiene (WASH) Emergencies, Humanitarian Leadership Academy KAYA, March 2022

Certificate, Monitoring, Evaluation, Accountability and Learning for Development Professionals Humanitarian Leadership Academy KAYA, March 2022

Certificate, Introduction of water, sanitation and hygiene (WASH) course, AGORA platform UNICEF

Certificate, Solar Energy course, Edapt learning application

Projects:

- **Reducing morbidity and mortality of deprived IDPs and host community members in Sudan, RELIEF INTERNATIONAL (RI) provided integrated health, WASH, and nutrition services to the most deprived populations of Blue Nile State (BNS) and North Darfur (ND). Jan 2023 - Jan 2024**

I was a Roving Field Engineer for an emergency USAID-BHA-funded Project in Blue Nile State (BNS) and North Darfur (ND) To reduce morbidity and mortality of deprived IDPs and host community members in Sudan, Relief International (RI) provided integrated health, WASH and nutrition services

I led the implementation of ongoing projects (Construction and/or rehabilitation installation components) for IDPs, host communities, and RI operation areas to meet and ensure the RI standards and/or the national WASH standards, depending on the context.

- **Improving access to water resources through integrated water resource management, improvement of livestock conditions, and prevention and mitigation of inter-communal conflict through conflict mitigation and dispute resolution approach in North Darfur Sep 2022 - Jun 2023**

I was a Civil Engineer with COOPI for a USAID-BHA funded Project in Kabkabiya locality, focusing on General awareness about IWRM, conflict resolution, and the importance of water resources and related resources, Formation of Water Resources Management Committee (WRMC), Mapping of water sources and water corridors by community participation at the field level, Visiting water resources, Rehabilitation/Upgrade of selected Water Resources identified in WRMP in targeted areas (Edalnbag, Adam regal, Bairka, Mistariha, Almodeeb), full training of committees in IWRM through professional facilitators from the center of peace studies University of EL Fasher.

- **Strengthening, the resilience of vulnerable communities to climate shocks and natural disasters through improved agriculture, water, and natural resources management in North Darfur Mar 2021 - Jul 2022**

I was a Project Sites Technician for a 1,082,378 USD UNWFP-funded FFA/PSN project in North Darfur focusing on the construction of agriculture infrastructure and services in northern Darfur in four particular localities Kabkabiya locality, Saraf Omra locality, millet and Korma locality in the EL Fasher North Darfur state. I had the responsibility to supervise of implementation of the project constructions/infrastructure mentioned localities, as follows

Supervised and handed over to the community five haffir construction, two irrigation wells with solar systems, construction of nursery and community forest fencing in Mellit locality, four irrigation wells with solar systems, construction of nursery, and community forest fencing in Kabkabiya locality, four irrigation wells with solar systems and construction of nursery in sarf omra locality. addition to my contribution when I was a site technician assistant in conducting of tools and seeds distribution to project beneficiaries, and collaboration with the cash team in cash distribution by attendance sheets according to community participation & contribution approach

Handed over project activities to the community which I supervised in the mentioned localities in coordination with the local government line administration and the water units attached to them.

REFEREE: Available on request