**PERSONAL INFORMATION** Muhannad Husain, **GMICE, Aff.M.ASCE**

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Sex Male | Date of birth 15 June 1990 | Nationality Sudanese

**JOB APPLIED FOR** Civil Engineer/Structural Designer/Quantity Surveyor

## WORK EXPERIENCE

Sep 2019 – Present Civil Structural Engineer (Intern)

Power China Huadong Engineering Corporation HDEC | Hangzhou, China

Working as a civil structural engineer at the (Overseas Business Unit-Engineering Technology department) to conduct necessary civil engineering calculations, checks, and follow-ups for the overseas projects, e.g. Buildings, Power-plants, Solar-Wind farms, etc. This include preparing bids, contracts drafting, structural analysis and design as per international standards such as American codes (ACI, ASCE, UBC), and European (EC0, EC1, EC2, EC8). Additionally, developing BIM project-specific business models and BIM execution plans (BEP).

**Specific knowledge: ETABS; SAP2000; Seismic Analysis; BIM; Power Plants; Hydropower structures; Renewable energy construction;**

Jul 2015 – Sep 2016 Contract Engineer - General Directorate of Projects

Ministry of Water Resources, Irrigation & Electricity - Dams Implementation Unit | Sudan

Working as a technical office and contract engineer for the Water Harvesting projects and the Engineering Directorate projects at all tendering and contracting issues using FIDIC contracts conditions. Job tasks include preparing all tender and bidding documents (client conditions and regulations, technical specifications, drawings, BOQs), bidders’ pre-qualification, tenders’ evaluation, awarding and preparing contracts as well as contracts and payments follow-up. In addition, revision of technical specification and issuing construction drawings and making necessary calculations for quantities estimation.

**Specific knowledge: FIDIC; BoQ; Tendering; Contracts Administration;**

 Jul 2015 – Sep 2016 Instructor (Part-time)

Orange Engineering Training Centre | Sudan

Instructing “Quantities Estimation for Construction Projects-MS EXCEL, Structural Analysis & Design by SAP2000, and AutoCAD Essentials for Civil Engineers” courses.

**Specific knowledge: SAP2000; Construction Estimation; AutoCAD; Structural Detailing**

 Jul 2015 – Sep 2016 Structural Designer (Freelancer)

| Sudan

Undertaking structural analysis and design for concrete residential buildings (up to G+6 buildings) as well as different concrete structures (water tanks, retaining walls, post-tensioned members) according to BS and ACI standards. In addition, conducting building rehabilitation, collapses and retrofitting reports (GSA, DoD, ASCE 41, ATC 40).

**Specific knowledge: Structural Design; SAP2000; ETABS; SAFE; AutoCAD; RC Design; PT Design; BS codes; ACI codes; ASCE codes.**

 Apr 2014 – Jul 2015 Civil Engineer - Concrete Works

Ministry of Water Resources, Irrigation & Electricity - Dams Implementation Unit | Sudan Seconded to Lahmeyer International GmbH.

Project : Dam Complex of Upper Attbra Project, Qedarif, Sudan

Engineer : Lahmeyer International GmbH.

Contractor : China Water & Electricity (CWE) - China Three Gorges Corporation (CTGC).

Cost : US$ 1.9 billion

Undertaking sufficient supervision for all types of concrete works in the Spillways-Power Station- Operation Building, and ensuring its quality matching as per international standards like (BS, DIN, ACI & ASTM) in addition to reinforcement checking and acceptance according to the execution drawing. Project contractor is China International Water & Electric Corporation (中国国际水电公司CWE) & China Three Gorges Corporation (中国三峡集团公司-CTGC).

**Specific knowledge: concrete structures; construction supervision; concrete testing.**

Jan 2013 – Jan 2014 QA Civil Engineer - Telecom towers division

MTN Sudan | Sudan

Supervising and following-up construction works for the company's steel towers (green fields & roof-tops), ensuring the matching of construction tasks to international standards and preparing all projects' drawings according to the company's technical specification (TIA-222G).

**Specific knowledge: steel structures; construction supervision; QA/QC.**

##  EDUCATION

 Sep 2016 – June 2019 Master of Science in Civil Engineering

Hohai University - Institute of Disaster Prevention and Structural Engineering | Nanjing, China

Graduation Grade: 89%, Dean's List (top 2% of class)

 Nov 2007 – Sep 2012 Bachelor of Engineering (Honours) in Civil Engineering

 Sudan University of Science & Technology (SUST) | Khartoum, Sudan

 First Class, 3.03 GPA in major, Dean's List (top 1% of class)

##  PERSONAL SKILLS

 Mother tongue(s) **Arabic**

 Other language(s)

|  |  |  |
| --- | --- | --- |
| UNDERSTANDING | SPEAKING | WRITING |
| Listening | Reading | Spoken interaction | Spoken production |  |

 **English** C1 C2 C1 C1 C2

 International English Language Testing System (**IELTS - Academic), Overall Score: 7.0** - Taken on Aug 2014

 **Chinese** Basic Intermediate level

 Hobbies voluntary works, breeding pets (especially cats & birds), gardening & planting, disseminating the culture of green community and sustainability, wood works, traveling, exploring new cultures, online instructing, ancient history, art works and handy crafts.

 Driving license valid driving license, issued from Sudan

## ADDITIONAL INFO

Honours and Awards -Best Academic Performance Award, School of Civil Engineering, Sudan University of Science & Technology (SUST), 2009 - 2011

-Hohai University scholarship (2016), awarded to outstanding students to pursue postgraduate study at Hohai University.

 Memberships - American Society of Civil Engineering **ASCE** - Affiliate Member Aff.M.ASCE

- International Federation for Structural Concrete **fib** - Student Member

- Institution of Civil Engineering **ICE** - Graduate Member GMICE

- Registered Graduate Engineer, Sudanese Engineering Council

Conferences & Workshops

 - Participated **in “7th Asia Conference on Earthquake Engineering (7ACEE): Seismic
 Resilience for Safer Cities and Infrastructures”**, Bangkok, Thailand, Nov 2018.

 - Participated in **“Hohai Research Forum: Organizing Your Research”** and **“How to
 Publish in Top-ranked journals?”** Nanjing, China, May 2017.

 - Participated in **Civil Engineering Students Society 1st conference** (CESSCON) at
 University of Khartoum (UofK); presented open lecture entitled “Civil Engineering for
 Sustainable Development”, March 2016 [(http://goo.gl/4JJZvh](http://goo.gl/4JJZvh))

 - Participated in **“Integrated Management of Solid Wastes within Environmental
 Sustainability - Case of Dams in Sudan”**, HSE Week, Ministry of Water Resources &
 Electricity, Khartoum, Sudan, January 2016

 - Attended **“The Business Case of Green Buildings”** Sudan Architecture Forum (SAF),
 September 2015

 - Attended **“Making a Case for Building Information Modeling in Sudan”** Sudan
 Architecture Forum (SAF), January 2015

Computer skills

 - Competent with structural analysis & design softwares, Static and Dynamic analysis, Linear and Non-linear analysis **(CSi SAP2000, ETABS, SAFE, Prokon)**

 - Advanced used of non-linear dynamics codes **(LS-DYNA, ANSYS)**

 - Knowledge of prestressed concrete design with **ADAPT-PT**

 - Advanced user of Drafting and BIM Modeling tools **(AutoCAD, Revit, Navisworks)**

 - Advanced user of Quantities take-off softwares **(PlanSwift & MS Excel)**