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CURRICULUM VITAE

Alia Mohammed Elamin Ahmed Abubaker

BS.c in Mechanical Engineering
MS.c in Renewable Energy Technology

Personal Information

Gender:	Female
Nationality:	Sudan
Visa Status:	Iqama
Residence Location:	Riyadh - KSA
Marital Status:	Married
Number of Dependents:	3
Driving License:	Sudan

Professional Experience

January 2018 -present

Instructor at Al-Faisal University – Engineering Collage - Mechanical Department

Teaching Laboratories :Thermal Fluid ,Materials Sciences ,Mechanics of Materials ,Manufacturing Engineer, Instrumentations and Controls and Finite Elements Analysis.

March2015-June2016

Teaching Assistant : Thermal Fluid ,HVAC and Mechanics of Materials

Mechanical Design Engineer (MEP) at Murtada Maaz Consultant Company.

Job Role: MEP Design Engineer

**Preparation of all HVAC designs ,(using software) for cooling load ,ducts system ,ventilations and establishing BOQ .preparation of HVAC specifications according to ASHREA, SMACNA standers for supply and installation. Involve in Plumbing , and Fire Fighting designs and check that meets the standers of NFPA, and IPC. check the submittals of MEP contractors, to get approval .also assist the site engineer in supervision of the MEP works.

April2008- February 2015

Senior Design Sales Engineer –Central Advanced Digitech- Sole Agent of LG Electronics

Job Role: HVAC Design & Sales Engineer

*Preparation of heat load calculation(using software) and establishing quantities and capacities for any inquiry .preparation of cost estimation sheet for supply and installation.

April 2002 - April2008:

Technical Manager

Seapal Company - Khartoum -Sudan

Site Supervision engineer – follow HVAC installation progress work - project implementation and all workshop works

July 2001 - March2002:

Site HVAC engineer

Sansaire Services LLC [Khartoum branch] –MEP Contractor

Khartoum - Gamhria street, Al Khartoum, Sudan

working on Khartoum Tower – GNPOC Head Quarter Building – Gamhoria street.

Company Industry: MEP Engineering

Job Role: site MEP Engineering

-Monitoring and reporting site progress works of all HVAC works this include installation of Chillers, FCU, AHU, duct system, child water pipes& water pumping system.. etc.

-Confirmation and inspection of approved design and specification of materials & installation works, and as install drawing..etc.

-Also assist in follow up of fire fighting and plumbing works on site. - monitoring site progress, detection of difference in shop drawing and actual site installation and recording it in the as installed drawing also, picking up of quantities of materials etc.

Feb.2000 – Dec. 2000:

Assistant Mechanical Engineer Sanoussi Trading and Contract co.

Khartoum -Riyad, Al Khartoum, Sudan **Job Role:** Engineering

assistant draft engineer with aids of computer skills, works assessment and costing engineer

Teaching assistant :Khartoum University – Mechanical Department Part time.

Education

Khartoum University
 July 1999: Bachelor's degree in Mechanical Engineer - Khartoum University - Faculty of Engineering and Arch. - Mechanical Department

Dec. 2012: Master Degree in Renewable Energy Technology –Khartoum University - Faculty of Engineering - Mechanical Department
 Thesis : A Hybrid Solar /Conventional Heating System for an Absorption Chiller

Teaching Award at Alfaisal University : Academic Years 2021 and 2024 .

Professional Certificates **Mostadam AP** مستندام معتمد
USGBC Faculty member LEED (AP BD+C) – LEED AP O+M ,CEM

- Courses**
- ASHRAE learning Institute -Design of High Performance Healthcare HVAC system Tuesday September 19 , 2016 online
 - ASHRAE learning Institute HVAC Design course -I & II -Nov.2015
 - Plumping Design & Cods
 - Fire Fighting Design & Stander
 - Primavera P6 - Sudanese Centre for Engineering and Environmental Studies
 - RMP Sudanese Centre for Engineering and Environmental Studies SEES
 - Project management .PMP.Axecnt
 - Design & Operation of air conditioning & Refrigeration system - Consultative Selling Skills
 - Negotiation Skills Program
 - Multi V system design –VRF from LG electronics (LG Academy Dubai)
 - Heating ventilation &air conditioning design& drafting per ASHRAE From Institute of Piping Eng.& Building Services(IPEBS –India)

Skill	Skill Level	Years of Experience	Last Used
Computer office program	Expert	More than 10 years	Present
AutoCAD program	Expert	More than 10 years	Present

Primavera P6	Intermediate	1 year	4 months or less
Revit MEP	Intermediate	4 years	Present
ANSYS		3 Years	Present

Skills

Memberships

Organization	Membership/Role	Member Since
Sudanese Engineering Council	Engineering Specialist Member	September 2013
Sudanese Engineering Society	Full membership	December 2012
ASHRAE	MEMBER	November 2015
USGBC	MEMBER	December 2016
AEE	MEMBER	October 2020

Personal Skills:

- ✦ Planning Skills
- ✦ Project Management
- ✦ Procurement & Engineering knowledge
- ✦ Team Leadership
- ✦ Supervisory Skills
- ✦ Negotiation Skills
- ✦ Selling Skills

Core Competencies:

- * **Green Building** Expertise .
- * Expert in CAD application software.
- * ANSYS Software
- *High level of accuracy - attention to details.
- *Analytical skills -complex problem solving.
- * Learning agility and decision making ability .
- *Excellent communication , managerial and interpersonal skills.
- *Instant in cutting-edge of technology and engineering .