

KHALID HUSSAIN

Mechanical Engineer | photovoltaic Engineer | PMP Certified | MEP Design & Coordination
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Mechanical Engineer with over 7 years of experience in consultancy, executions and project management of MEP systems and EPC solar systems, with a strong focus on HVAC, plumbing, firefighting, and energy-efficient building systems. Proven track record in delivering MEP and Solar projects ensuring compliance with international standards and client specifications. Experienced in design, site supervision, and coordination of mechanical and photovoltaic systems for industrial, commercial, and residential projects. Successfully managed the execution and commissioning of HVAC systems, including chillers, VRV, fan coil units, AHUs, and chilled water piping networks and air duct in alignment with SMACNA, ASTM, and ASHRAE standards. A trilingual professional (native Arabic, Advanced English, intermediate Chinese), with excellent technical communication, client coordination, and cross-functional team leadership skills. Adept at supplier sourcing, value engineering, and workflow optimization to enhance project efficiency, reduce costs, and ensure on-time delivery.

Core Competencies

- MEP Design & Drafting (AutoCAD, Revit)
- HVAC System Design & Commissioning
- Site Supervision & Quality Control
- Technical Submittal & Tender Preparation
- PMP certified

Work Experience

HVAC ENGINEER

ClimaCool for HVAC – Saudi Arabia. March 2025 –Till now

- Design and manage installation for HVAC project.
- Participated in selection and supply of HVAC products used in company projects.
- Provided technical support and training to clients on HVAC system operation and maintenance, increasing customer satisfaction ratings.
- Supervise technicians to execute works as designed and according to codes and standards.
- Provided technical support and training to clients on solar system operation and maintenance, increasing customer satisfaction ratings.

SOLAR ENGINEER

MOMEN ADVANCED BUSSINESS CO LTD – Sudan. Feb 2023 – March 2025

- Deigned and managed installation for several solar projects.
- Participated in selection and supply of solar products used in company projects.
- Provided technical support and training to clients on solar system operation and maintenance, increasing customer satisfaction ratings.
- Conducted site assessments to evaluate the feasibility of solar installations, leading to over 7 successful projects.
- Provided technical support and training to clients on solar system operation and maintenance, increasing customer satisfaction ratings.

SALES ENGINEER

CHINA SHOTO COMPANY-China. Sep 2021 - Jan 2023

- Developed and executed regional sales strategies for energy storage systems manufactured by China SHOTO company.
- Built and maintained strong relationships with key clients in renewable energy, Telecommunications, industrial, and commercial sectors, resulting in repeat business.

- Conducted technical assessments and product demonstrations, showcasing the benefits of energy storage systems to customers and improving satisfaction rates.
- Collaborated with R&D and engineering teams to develop customized energy storage solutions tailored to local market needs, enhancing client adoption.
- Analyzed market trends and competitive landscape to identify growth opportunities.
- Managed the entire sales cycle, from lead generation to contract negotiation.
- Provided training and technical support to distributors and local sales representatives, improving their product knowledge and sales performance.
- Participated in industry conferences and trade shows, promoting energy storage solutions.

SALES ENGINEER

MEDAS SUZHOU INTERNATIONAL COMPANY – China. Nov 2019 - Jan 2021

- Developed and executed regional sales strategies for water pump systems manufactured by Medas company.
- Built and maintained relationships with key clients in agriculture, construction, and municipal sectors, resulting in growth in repeat business.
- Conducted technical product demonstrations and site assessments, providing tailored solutions that enhanced customer satisfaction and system performance.
- Analyzed regional market trends and competitor offerings to identify new business opportunities, contributing to the successful introduction of two new product lines.
- Managed the complete sales cycle from lead generation to project closure, consistently exceeding quarterly sales targets by 10%.
- Provided training and support to distributor networks and local sales teams, improving product knowledge and driving sales performance.
- Participated in industry trade shows and forums to promote product awareness

MEP SITE ENGINEER

Mortada MAAZ CONSULTANCY – Sudan Jun 2016 - Apr 2017

- Coordinated the installation and commissioning of MEP systems, including HVAC, firefighting, plumbing, fountains, garbage chute and elevators ensuring projects met deadlines and quality standards.
- Conducted on-site inspections and quality control checks, identifying issues and implementing solutions to maintain project timelines.
- Collaborated with project managers and subcontractors to plan and execute MEP work, optimizing workflows and reducing downtime.
- Prepared and maintained comprehensive documentation, including site reports, progress updates, and compliance records, enhancing project transparency.
- Assisted in troubleshooting and resolving technical issues, ensuring efficient operation of MEP systems during and after installation.
- Reviewed and interpreted blueprints and technical drawings, facilitating accurate implementation of design specifications on-site.
- Implemented safety protocols and best practices, conducting regular site safety audits and training sessions.
- Liaised with clients and stakeholders to provide updates and address concerns, ensuring project alignment with client expectations.

SERVICE ADVISOR

MIG motors (exclusive dealer for Skoda and Renault in Sudan) Jun 2015 - Nov 2015

- Enhanced customer satisfaction through effective management of service appointments and inquiries.
- Accurately diagnosed vehicle issues and communicated service recommendations to clients.
- Prepared precise service estimates in collaboration with technicians, ensuring clear communication on repairs.
- Improved follow-up processes and retention rates by maintaining comprehensive customer records.

- Streamlined warranty claims and service order processing.
- Trained new staff on customer service best practices, enhancing team efficiency.
- Coordinated with parts departments to minimize vehicle downtime for customers.
- Boosted service department sales by 20% through strong customer relationships.

Education

- **Master in Mechanical Engineering**
SOUTHEAST UNIVERSITY – China (Sep 2018 - Jun 2021)
- **Bachelor in Mechanical Engineering**
UNIVERSITY of Khartoum – Sudan (Oct 2009 - Oct 2014)

Languages

- **Arabic** (*fluent*)
- **Chinese** (*intermediate*)
- **English** (*advanced*)

Courses & Certifications

- Project Management Professional (PMP) from Project Management Institute (PMI)
- Digital Marketing and E-commerce from Google
- Solar Photovoltaic System at Elec Design & Construction
- HVAC (Heating, Ventilation, and Air Conditioning) at Soft Star Training Center
- Firefighting at Soft Star Training Center
- Plumbing at Soft Star Training Center
- Research and Academic Writing

Personal Skills

- **Problem-Solving:** Analyzes complex issues and develops effective solutions.
- **Technical Proficiency:** Strong knowledge of CAD software (e.g., AutoCAD, SolidWorks) and engineering simulation tools.
- **Attention to Detail:** Ensures compliance with specifications and maintains high-quality standards.
- **Team Collaboration:** Works effectively in cross-functional teams to achieve project goals.
- **Adaptability:** Quickly adjusts to new technologies and business practices.
- **Critical Thinking:** Evaluates options and makes informed decisions under pressure.