

MOHAMMED MUKHTAR

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Brief Overview

- Enthusiastic Electrical Engineer with more than 4 years of experience in project planning, execution, and management within Oil & Gas industry and the manufacturing industry.
- Certified Project Management Professional (PMP) with a proven track record in project management, and data analytics to drive operational efficiencies.
- Ability to lead multidisciplinary teams, develop effective project strategies, and implement innovative solutions to achieve project goals efficiently.
- Proficient in utilizing advanced project management tools and methodologies to ensure projects are completed on time, within budget, and to the highest quality standards.
- Proficient in creating, reviewing and optimizing project drawings to ensure accuracy and completeness of planning packages and project scope, with strong analytical capabilities to assess performance metrics (KPIs).
- Experienced and deeply interested in Data Analytics, possessing a keen enthusiasm for leveraging analytics tools to derive meaningful insights and making data driven decisions.
- Experienced in leveraging advanced software tools, including PM softwares such as MS Project, Jira, Primavera P6, and data analysis & visualisation platforms like MS Power BI, to create and monitor project schedules, facilitate communication among stakeholders, and generate actionable insights.
- Demonstrated ability to communicate complex technical information clearly, both verbally and in writing, while collaborating with cross-functional teams to achieve project goals efficiently.

Skills

Critical thinking skills
Report writing and presenting
Project Management Software
(Jira, MS Project, Primavera P6)

Excellent communication skills
Risk Management
Resource Allocation
Data Analysis (Python, SQL, Power BI)

Process improvement
Power System Analysis
ETAP Software
AUTOCAD

Education

B.Eng (Hons) Electrical & Electronics Engineering

University of Nottingham, United Kingdom (2016-2020)

Graduation Project: “Powering Agricultural Projects in Sudan using Solar Energy”

My graduation project was aimed at finding a solution to the frequent power cuts that affected the production rates of agricultural projects. It was based on real life data which ultimately allowed for the comparison of agricultural projects powered from different sources namely the electrical grid, fossil fuels (diesel) and solar energy.

Certifications

Project Management Professional Certificate (PMP)

Project Mangament Institute

Google Project Management Certificate (6-course specialisation)

Google

IBM Data Analysis Professional Certificate (8-course specialisation)

IBM

Preparing Data for Analysis with MS Excel

Microsoft

Harnessing the Power of Data with Power BI

Microsoft

AWS Cloud Technical Essentials

Amazon

Electric Power Systems

University at Buffalo (SUNY)

Power System Modelling & Fault Analysis

L&T EduTech (Larsen & Toubro)

Load Flow Analysis

L&T EduTech (Larsen & Toubro)

Expertise

- Develop and issue detailed planning packages according to contractual terms and conditions, ensuring timely client approvals and adherence to project timelines.
- Collaborate with stakeholders to gather requirements and ensure alignment with project objectives.
- Create and manage project schedules that reflect execution strategies and achievable milestones, utilizing PM tools like Primavera P6 and MS Project.
- Perform regular updates and adjustments to schedules based on resource availability and project progression.
- Generate purchase requisitions for materials, equipment, and services, tracking procurement progress to ensure timely delivery and availability on-site.
- Estimate required manpower, materials, and equipment for each activity, identifying long lead items critical to project timelines.
- Liaise with various engineering disciplines to ensure comprehensive integration of all project components, facilitating smooth collaboration among teams.
- Continuously monitor project progress through regular site visits, collecting data to assess performance against established benchmarks.
- Analyze and report on key performance indicators (KPIs), including earned value analysis (EVA), schedule variance, and cost performance index (CPI).
- Prepare and present detailed project status reports, summarizing progress, challenges, and action plans for management and stakeholders.
- Ensure accurate documentation of all project changes, maintaining a historical record for future reference and analysis.
- Implement safety protocols and ensure compliance with industry regulations, conducting regular safety audits and risk assessments.
- Foster a culture of safety among project teams, encouraging proactive identification and mitigation of potential hazards.

Work History

Centroid Technical Services // Sudan

Planning Engineer // (Aug 2023 – Current)

Contracted to 2B Petroleum Operating Company for the optimisation of Heglig Power Plant & Distribution Network

- Developing and implementing strategies for the efficient operation of thermal engines, generators, and auxiliary equipment to maximize performance and reliability.
- Analyzing power plant operational data and trends to identify areas for improvement, formulating actionable plans, and presenting findings to senior management to enhance efficiency.
- Preparing detailed monthly reports on power plant equipment performance, fuel efficiency, and downtime, providing insights and recommendations for further optimization.
- Conducting regular inspections and assessments to ensure equipment reliability, compliance with regulatory standards, and alignment with operational plans.
- Collaborating with maintenance and engineering teams to plan oversee electrical upgrades, equipment outages, and troubleshooting efforts.
- Generating reports on the status of electrical projects, maintenance activities, and system performance.
- Ensuring compliance with electrical standards, codes, and regulatory requirements (IEEE, IEC) meanwhile implementing safety protocols and procedures to maintain a safe working environment for all personnel.

Aswam Factory for Pharmaceuticals & Hemodialysis Solutions // Khartoum, Sudan

Project Engineer // (May 2021 - Aug 2022), Planning Engineer // (Aug 2022 – Apr 2023)

- Coordinated with the National Medicinal Regulatory Authority (NMPB) to gather requirements, ensuring regulatory standards were met as part of the factory planning process for seamless GMP licensing.
- Played an active role in the design and planning of production, storage, and quality control facilities, ensuring an optimized layout that enhanced workflow efficiency and supported high production rates.
- Part of the procurement planning team, responsible for defining technical specifications and scheduling for major production equipment (water purification systems, processing equipment, HVAC systems, automated production lines) and ensuring timely procurement and delivery.
- Oversaw the inspection and quality control of procured equipment to ensure adherence to planning requirements and quality standards before installation.
- Led the planning and coordination of the installation and commissioning of factory equipment, managing timelines, resources, and logistics to ensure the successful execution of the project until the factory was fully licensed.

- Ensured compliance with industry regulations and standards through effective planning of quality control activities, minimizing risks and ensuring that all processes aligned with GMP and regulatory requirements.
- Developed and implemented production strategies by analyzing operational data to improve process efficiency, reduce costs, and increase overall productivity. Integrated these plans into long-term production schedules.
- Monitored and reported on key performance indicators (KPIs) to track production progress, identify bottlenecks, and develop mitigation plans, ensuring alignment with project timelines.
- Collaborated with cross-functional teams (production, procurement, quality, and engineering) to ensure production plans met business objectives and resource constraints.
- Utilized statistical methods and quality tools to analyze production data, conduct root cause analysis, and provide insights for continuous process improvement. Incorporated findings into future planning cycles to optimize resource use.
- Conducted research and analysis to suggest new product opportunities based on existing equipment capabilities, preparing feasibility studies and planning for equipment usage and timelines.

Aswam Agricultural & Animal Production // Shendi, Sudan
Project Engineer // (Sep 2020 - May 2021)

- Worked in the project team to develop a comprehensive project plan for the seamless implementation of a hybrid generator/solar array power system, employing an Engineering, Procurement, and Construction (EPC) approach. This entailed creating a detailed project plan encompassing projects scope, objectives, timelines, and resource requirements.
- Ensuring strict adherence to timelines and budget constraints throughout the implementation process. Coordinating with team members accross and external vendors to achieve project milestones and deliverables.
- Worked in the planning of the power system requirements & design meanwhile coordinating with external vendors.
- Designing and delivering training programs to enhance team members' understanding of new technologies, identifying skill gaps and developing targeted training sessions.
- Working with teams to integrate sustainable practices into daily operations and projects. Monitoring and assessing the effectiveness of implemented sustainable practices while making adjustments as needed.

Languages

English
Professional Level

Arabic
Mother Language

Achievements

Aswam Factory for Pharmaceuticals & Hemodialysis Solutions

- Personally spearheaded the inspection visit which led to the awarding of the factory's production license.
- Researched the feasibility and introduced a second production line (powder line) which was later implemented being the first and only factory domestically to have established it.

Aswam Agricultural & Animal Production

- Implemented a hybrid generator/solar array power system that ended up slashing operating expenses by an estimated 14% through the decreased consumption of fossil fuels alone.

Centroid Technical Services

- Implemented a new method for the monitoring of lube oil consumption in Heglig Power Plant which required a lot of data to be gathered over time. This data was analysed and a report was made regarding lube oil consumption trends, which allowed for data-driven decisions to be made ultimately reducing lube oil consumption drastically.

References

Mr Chris Hulse, Director of Registry & Academic Affairs, Univeristy of Nottingham | Christopher.hulse@nottingham.ac.uk

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