

Mohammed Abdulrahman Alawad

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Sudanese

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Dammam

Proven track record of high adaptability and **outstanding** performance in working within different areas of the engineering disciplines. Specialized in incorporating emerging technologies (IoT, Artificial Intelligence, Augmented/Virtual Realities) into different engineering aspects. Expertise in forging valuable relationships with internal and external partners.

Work experience

Aqwa Naaqla Company

Mechanical Engineer

06/2020– Present

- Handled tenders analysis activities, and developed prediction analysis that directly impacted the company success in winning contracts.
- Formulated, reviewed and presented Project Execution Plan and other proposals, including details on the planning, scoping, budget and schedule estimates, and expenditure authorizations.
- Attended meetings, presented and discussed project details with the client, organized relevant project data and information on operating requirements, process, and economic considerations.

Maintenance Crane Engineer

11/2018 – 06/2020

- Identified and prepared reports on crane systems and hydraulic systems that need modifications.
- Performed quality inspections and operated crane systems under the guidance of Crane & Hydraulic Superintendent.
- Analyzed manufacturing operation procedures, design and product development techniques.

Educations

King Faisal University

Alahsa, SA

Bachelor of Mechanical Engineering

Class of 2018

Relevance Projects

Augmented Reality Crane Maintenance App

- Implemented cutting edge artificial intelligent models to build computer vision system capable of identifying major crane models and parts.
- Used AR core and unity engine to develop all the backend system and frontend system of the app.

Robotic System Development

- Developed real world robotic arm simulation in Robotic Operating System. Not only capable of doing all the fancy 6 DoF of Kuka arm maneuver, but equipped with a vision system trained to identify the world surrounding the robot.

Skills

Technical Skills Mechanical components design and 3d printing, 1d/3d CFD system modeling and simulation, Automation, Reporting, Prototype and Testing.

Software Skills Strong competency: Python, C++, MatLab, ML libraries, Ansys, Solidworks, Unity
Familiar with: AutoCAD, Java, Flownex, Blender, ArcGIS.