

Abdelrahman Mohammed Dawood

Senior Mechanical BIM Engineer

✉ daoud728@gmail.com

☎ +201030100993

📍 220 Hegaz Street - El Nozha

📅 27 Sep 1995

🇪🇬 Egyptian

🔒 Engaged

🛡 Exempted

🌐 <https://www.linkedin.com/in/dawood/>

PROFILE

Senior Mechanical BIM Engineer and Technical Office specialist with over 7 years of experience in developing innovative design processes for large-scale projects, including tunnels, hotels, and residential compounds. Proven expertise in leading BIM modeling, family creation, coordination, and quality control for HVAC, Plumbing, and Firefighting systems to deliver clash-free designs.

EDUCATION

Bachelor of Mechatronics Engineering,

2013 – 2018

Higher Technological Institute 10th Of Ramadan

Cairo

- Mechanical Department, Mechatronics Section
- GPA: 2.95

WORK EXPERIENCE

Kemet Corporation, Senior Mechanical BIM Engineer

Jun 2024 – present

Cairo, Egypt

Projects and Responsibilities

1- King Salman Mosque - Arabian Gardens Water Features (Oct 2025 - Present)

- **Location:** Riyadh, Saudi Arabia
- **Client:** KING SALMAN PARK FOUNDATION
- **Consultant:** MYAA
- **Main Contractor:** FREYSSINET SAUDI ARABIA

2- AUC Extension - Tunnel, Water Features, and Infrastructure (Jul 2025 - Present)

- **Location:** Cairo, Egypt
- **Client:** AUC Campus
- **Consultant:** SHAKER & EHAF
- **Main Contractor:** Orascom

3- CHEDI Hotel Project (Jul 2025 - Sep 2025)

- **Location:** Riyadh, Saudi Arabia
- **Client:** DIRIYAH COMPANY
- **Consultant:** V3 MIDDLE EAST ENGINEERING CONSULTANT
- **Main Contractor:** BUJV

FOR All Above Projects:

- Served as Mechanical Team Leader & Senior Mechanical Engineer, supervising the mechanical team's tasks.
- Led BIM modeling and coordination for Plumbing, HVAC, and Firefighting systems.
- Directed and reviewed detailed shop drawings in compliance with project standards.
- Ensured clash-free designs through mechanical coordination with other trades and strict quality control.
- Monitored team progress and maintained high project standards.

4- Dirayah Tunnel Project (Jun 2024 - Jun 2025)

- **Location:** Riyadh, Saudi Arabia
- **Client:** DIRIYAH COMPANY
- **Consultant:** AECOM
- **Main Contractor:** FEMCO

(Jun 2024 - Oct 2024)

- Served as Mechanical Team Leader & Senior Mechanical Engineer, supervising the mechanical team's tasks.
- Led BIM modeling and coordination for Plumbing, HVAC, and Firefighting systems.
- Directed and reviewed detailed shop drawings in compliance with project standards.
- Ensured clash-free designs through mechanical coordination with other trades and strict quality control.
- Monitored team progress and maintained high project standards.

(Nov 2024 - Jun 2025)

- Operating on-site as a Senior Mechanical BIM Engineer.
- Managing the BIM implementation of mechanical systems.
- Conducting on-site coordination to resolve design and execution challenges.
- Ensuring compliance with BIM standards and project deadlines.
- Collaborating with contractors and consultants to address technical issues.

5- Makkah Haram Extensions Project (Aug 2024 - Oct 2024)

- **Location:** Riyadh, Saudi Arabia
- **Consultant:** DAR AL-HANDASA
- **Main Contractor:** SAUDI BINLADIN GROUP
- Worked as a Senior Mechanical Engineer, specializing in shop drawings.
- Created detailed and compliant Plumbing, HVAC, and Firefighting shop drawings.
- Ensured design adherence to project specifications and collaborated with consultants.
- Prepared and reviewed as-built drawings for final project documentation.

Atrium Quality Contractors - TMG, Mechanical BIM Engineer

Apr 2023 – May 2024
Cairo, Egypt

Project: Madinaty Medical Center

Client: TMG

Consultant: DAR

Responsibilities:

- Do Plumbing, HVAC, and firefighting shop drawings using Revit and AutoCAD.
- Make the Clean copy and Asbuilt drawings.
- Coordinate trades with each other to get a safe design and avoid clashes.
- Tracked technical office work progress under the supervision of the technical office manager.
- Discuss technical issues with the consultant.

Solid Construction, Senior Mechanical Technical Office Engineer

Jun 2021 – Mar 2023
Cairo, Egypt

- **Project:** Belle Vie Residential Compound, New Zayed
- **Client:** Emaar Misr
- **Consultant:** EGEC
- Do Plumbing, HVAC, and firefighting shop drawings using Revit and AutoCAD.
- Make the Clean copy and asbuilt drawings.
- Coordinate trades with each other to get a safe design and avoid clashes.
- Do the Subcontractors' Invoices after acquiring the site progress data and the quantity survey.
- Tracking technical office work progress under supervision of Technical Office Manager.
- Discuss technical issues with the consultant.

Samcrete Engineers and Contractors, Mechanical Engineer

Jan 2019 – May 2021
Cairo, Egypt

- **Project:** R05 Residential Compound at The New Administrative Capital
- **Consultant:** ECG
- **Main Contractor:** Samcrete Construction
- Do Plumbing, HVAC, and firefighting shop drawings of the Project using Auto CAD.
- Responsible for implementation and monitoring of all mechanical-related operations at the site as per approved drawings and methods.
- Contact the suppliers who delivered their submittals for Approval.
- Do the Clean copy and asbuilt the drawings after Approval.
- Modify the HVAC Design using Duct Sizer and ASHRAE Duct Fitting to get a safe design and avoid clashes.
- Create the Client's and Subcontractors' Invoices.
- Planning and tracking work progress under the supervision of the PM.

SOFTWARE

- Autodesk Revit
- Autodesk Civil 3D - MEP
- Autodesk Autocad
- Microsoft Office
- Dassault Systèmes Solidworks

LANGUAGES

- Arabic
- English