

# Mahmoud El Arnab

Senior Mechanical Technical Office and Design Engineer | Senior Mechanical BIM Engineer

Dammam, Saudi Arabia | [mahmoudelarnab3@gmail.com](mailto:mahmoudelarnab3@gmail.com) , [mahmoudwn920@gmail.com](mailto:mahmoudwn920@gmail.com) | <http://linkedin.com/in/mahmoud mohamed-854bb6102> | 0537357815

Experienced MEP Design Engineer with strong expertise in BIM modeling and coordinated MEP systems, delivering multiple projects with a special focus on healthcare and hospital facilities. I am skilled in the design, modeling, and coordination of HVAC, plumbing, firefighting, medical gases, and managing and coordinating other related mechanical systems for project utilities like generators, elevators, commercial kitchens and laundry in compliance with international codes and healthcare standards. Adept at coordinating with multidisciplinary teams, managing subcontractors, and fostering positive client relations. Committed to delivering projects on time and within budget, while maintaining a strong focus on safety, sustainability, and innovation.

## AREA OF EXPERTISE

- Design MEP systems.
- Tendering.
- Procurement.
- Leadership and Management.

## PROFESSIONAL EXPERIENCE

**(Senior Mechanical Design Engineer) (Dammam, KSA): Enmaa Gulf Engineering Consultant company**  
**OCT 2024 – Present**

### Principal Responsibilities:

- Design HVAC, F.F, PL and Irrigation system respecting the following sequence: -
  - Preparing the B.O.D (Basis of design report).
  - Preparing the calculation sheets mechanical systems.
  - Preparing the concept of design.
  - Starting the IFA drawings.
  - After IFA approvals I start the IFC drawings.
  - Preparing the B.O.Q (Bill of quantity).
  - Preparing the project SPECS.
  - Preparing M.T.S (Material technical submittals), shop drawings, procurement plans and comparison sheets for contractors as we are providing third party services for contracting companies.
  - Attending progress and technical meetings to discuss and propose technical solutions.

### Projects:

- Beach Camp Lot 14 and 16 (**Client: - Maaden | Owner: - Maaden**).
- Recreation Center (**Client: - Maaden | Owner: - Maaden**).
- Construction of Infrastructure and Single Unit Apartments (**Client: - DACO | Owner: - Maaden**).
- Rehabilitation of DSF Building for Mujahideen HQ at KFIA (**Client: - RCL | Owner: - Matarat**).
- Turiaf City Mosque (**Client: - DACO | Owner: - Maaden**).
- Adwaa Al Rawafed Cabel Tray Factory (**Client: - DACO | Owner: - DACO**).
- DACO Administrative Tower (**Client: - DACO | Owner: - DACO**).

**(Senior Mechanical Technical Office Engineer) (Riyadh, KSA): Asala Al Khaleej Development & Real Estate Investment**  
**Mar 2024 – SEP 2024**

### Principal Responsibilities:

- Preparing Shop drawing and making sure it is suitable for the request drawing.
- Successfully prepared cost breakdown for (HVAC – Firefighting – Plumbing – Elevators – Swimming pool).
- Study Specification, BOQ and drawing form consultants for Projects (Tender Package).
- Prepare RFI, IR and MIR and send them to the project consultant.
- Qualifying and approving the suppliers by consultant.
- Upholding stringent quality standards by ensuring adherence to project specifications and materials used.
- Expertly addressing technical challenges and facilitating smooth collaboration among construction teams.
- Attending progress and technical meetings to discuss and propose technical solutions.

### Projects:

- LEGAM Fitness Time: QATIF (Client: - LEGAM | Owner: - LEGAM).
- LEGAM Fitness Time: TAROUT (Client: - LEGAM | Owner: - LEGAM).

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(Senior Mechanical Technical Office Engineer) (Cairo, Egypt): Al Sawaed for construction

Jan 2023 – Feb 2024

### Principal Responsibilities:

- Preparing Shop drawing and making sure it is suitable for the request drawing.
- Successfully prepared cost breakdown for (HVAC – Firefighting – Plumbing – Elevators – Swimming pool).
- Study Specification, BOQ and drawing form consultants for Projects (Tender Package).
- Prepare RFI, IR and MIR and send them to the project consultant.
- Qualifying and approving the suppliers by consultant.
- Upholding stringent quality standards by ensuring adherence to project specifications and materials used.
- Expertly addressing technical challenges and facilitating smooth collaboration among construction teams.
- Attending progress and technical meetings to discuss and propose technical solutions.

### Projects:

- El Edwa Central Hospital (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Bani Mazar Central Hospital (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Edwa Outpatient Building (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Naser City Medical Insurance Hospital (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Embaba National Institute (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- El Tour Stores South Sinai (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Suez Medical Insurance Hospital (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Suez Outpatient Building (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).

- Fever El Edwa Hospital (**Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health**).
- Fever Magags Hospital (**Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health**).

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**(Senior Mechanical Technical Office Engineer) (Cairo, Egypt): El Nuby Group**

**Oct 2021 - Dec 2022**

**Principal Responsibilities:**

- Preparing Shop drawing and making sure it is suitable for the request drawing.
- Successfully prepared cost breakdown for (HVAC – Firefighting – Plumbing – Elevators – Swimming pool).
- Study Specification, BOQ and drawing form consultants for Projects (Tender Package).
- Prepare RFI, IR and MIR and send them to the project consultant.
- Qualifying and approving the suppliers by consultant.
- Upholding stringent quality standards by ensuring adherence to project specifications and materials used.
- Expertly addressing technical challenges and facilitating smooth collaboration among construction teams.
- Attending progress and technical meetings to discuss and propose technical solutions.

**Projects:**

- El Galala Hospital. (**Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health**).
- ITI Fayoum Ministry of Communication. 03- Project Name: Aswan Egypt Library. (**Client: - EGY Ministry of Communication | Owner: - EGY Ministry of Communication**).
- Luxor Nile Corniche Renovation. (**Client: - LUXOR Government | Owner: - LUXOR Government**).
- Suez Canal University Outpatient Clinics. (**Client: - Suez Canal University | Owner: - Suez Canal University**).
- El Ramad Hospital. (**Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health**).
- Kokomo Hospital, phase two. (**Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health**).
- Samalout Hospital. (**Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health**).
- Suez Canal Authority Hospital. (**Client: - Suez Canal Authority | Owner: - Suez Canal Authority**).

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**(Mechanical Technical Office Engineer) (Cairo, Egypt): TOWER CONSTRUCTIONS AND ARCHITECTURE**

**May 2019– Sep 2021**

**Principal Responsibilities:**

- Preparing Shop drawing and making sure it is suitable for the request drawing.
- Study Specification, BOQ and drawing form consultants for Projects (Tender Package).
- Prepare RFI, IR and MIR and send them to the project consultant.
- Attending progress and technical meetings to discuss and propose technical solutions.

## Projects:

- 30 of June International urology and nephrology center. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- El Mostaqbal medical family center. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- El Shohadaa medical family center. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Nefesha medical family center. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- International Karnak Hospital (General Luxor previously). (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- International Luxor Hospital. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Nasser Institute (Kuwaiti Section). 08- Project Name: Nasser Institute (Nursery Section). (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Doctors' Hotel For El Alameen Hospital development. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- El Ain El Sokhna hospital. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Farshot Hospital. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Obour Hospital. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- Nasitta Fridge Storage. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).
- El Kuwaitia Storage. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).

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(Mechanical Technical Office Engineer) (Cairo, Egypt): EGYPTIAN ARMED FORCES AT PROJECT MANAGEMENT DEPARTMENT

OCT 2016– APR 2019

## Principal Responsibilities:

- Preparing Shop drawing and making sure it is suitable for the request drawing.
- Study Specification, BOQ and drawing from consultants for Projects (Tender Package).
- Prepare RFI, IR and MIR and send them to the project consultant.
- Attending progress and technical meetings to discuss and propose technical solutions.

## Projects:

- Mansoura specialized Hospital. (Client: - EGY Ministry of Health | Owner: - EGY Ministry of Health).

## EDUCATION

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**Bachelor's degree in mechanical power engineering** (OCT 2011 — JUNE 2016) - Mansoura University.

## COURSES & CERTIFICATES

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- Shop drawing Course By Auto cad & Auto fluid, online self-learning.
- Cost Estimation Course, Technical Team Leader in Tower Company.
- BIM Management, Niqaat.
- Revit Course, Niqaat.
- HVAC Course, Dr Ahmed Abd El Salam Mechanical Engineering Department Head in Mansura University.
- Firefighting Course, Dr Ahmed Abd El Salam Mechanical Engineering Department Head in Mansura University.
- Plumbing Course, Dr Ahmed Abd El Salam Mechanical Engineering Department Head in Mansura University.
- Medical Gases, Ministry of Health, Egypt.
- Engineering Software Design Programs: -

1. REVIT
2. Navis Works
3. Auto fluid
4. Auto Cad
5. HAP
6. DUCT SIZER
7. Pipe Sizer
8. Pipe Flow Wizard
9. ASHRAE Psychrometric Analysis
10. Elite R-HVAC
11. Elit FIRE
12. Office programs
13. VRF Software Selection

## LANGUAGES

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- Proficient in Arabic with Very Good command in English.

## MEMBERSHIPS

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- Valid Membership In Saudi Council Of Engineering.

## PERSONAL SKILLS

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- Good personality with work company.
- I appreciate teamwork and respect for managers.
- Apply HSE Procedures on site Visits.
- Cooperative with work team.
- Ability to handle multiple tasks.
- Creative problem solver and decisions maker.

## PERSONAL INFORMATIONS

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- **Marital Status:** Married