

Hassan Abd El-Halem Hassan

MECHANICAL ENGINEER

Shoubra - Qalyubia - Egypt

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PERSONAL INFORMATION

- Nationality: **Egyptian**
- Date of birth: **12th August 1997**
- Marital Status: **Single**
- Military Status: **Exempted**

EDUCATION

Benha University – Shoubra faculty of engineering

- Major: **B.Sc. in Mechanical Power Engineering**
- Graduated: **May 2020** with grade **Good**
- Graduation project: Cool thermal energy storage (using finned tubes).
- Graduation project grade: **Excellent**

PROFESSIONAL EXPERIENCE

RAKA DESIGN

(Heliopolis, Egypt)

FIREFIGHTING & PLUMBING DESIGN ENGINEER

Aug 2024 – Present

- Design FIREFIGHTING & PLUMBING systems for various Health care, residential, and industrial projects.
- Develop detailed design plans, specifications, and drawings for Firefighting & Plumbing systems.
- Perform suitable system selection and requirements for firefighting according to NFPA and Local Codes.
- Conduct hydraulic calculations to determine system Head and Flowrate requirements.
- Collaborate with architects, electrical engineers, and other stakeholders to ensure integrated and efficient design solutions.
- Conduct entirely systems calculations to determine water, fire tank size, and pump specifications requirements.
- Prepare accurate cost estimates for materials, labor, and equipment associated.

MENTOR Consulting Group, MCG

(Giza, Egypt)

FIREFIGHTING & PLUMBING DESIGN ENGINEER

May 2024 – Aug 2024

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CEGMAN Consulting Group

(Giza, Egypt)

FIREFIGHTING & PLUMBING DESIGN ENGINEER

Nov 2023 – May 2024

- Design FIREFIGHTING & PLUMBING systems for various Health care, residential, and industrial projects.
- Develop detailed design plans, specifications, and drawings for Firefighting & Plumbing systems.
- Perform suitable system selection and requirements for firefighting according to NFPA and Local Codes.
- Conduct hydraulic calculations to determine system Head and Flowrate requirements.
- Collaborate with architects, electrical engineers, and other stakeholders to ensure integrated and efficient design solutions.
- Conduct site visits and surveys to assess existing infrastructure and gather necessary information for design purposes.
- Prepare accurate cost estimates for materials, labor, and equipment associated with design.
- Review contractor proposals, select suitable vendors, and recommend equipment for installation.
- Monitor the construction progress on-site to ensure compliance with the approved design and technical specifications.
- Conduct quality control inspections and commissioning activities to ensure systems are functioning properly.

Some Projects:

- Mostakbal Misr Project. (Dabaa axis, Egypt)
 - Firefighting system (for main buildings and layout)
 - Water supply system (for main buildings and layout)
 - Drainage system (for main buildings and layout)
 - Industrial sewage network
- Nafisa El Hosary University Hospital. (Al Fayoum, Egypt)
 - Water supply system
 - Drainage system
- Damietta Traffic Department (Damietta, Egypt)
 - Firefighting system (for main buildings and layout)
 - Water supply system (for main buildings and layout)
 - Drainage system (for main buildings and layout)

Heliopolis co. for chemical industries, (81th Military factory)

(Cairo, Egypt)

MAINTENANCE ENGINEER

Oct 2021 – Oct 2023

- Maintaining the physical condition of equipment by performing routine inspections and repairs.
- Repairing or replacing defective components.
- Installing new machinery or equipment.
- Monitoring machinery operation to ensure that it is working properly

COURSES & TRAINING

- **BIM SOLUTION (Mechanical BIM Engineer)**
 - BIM Workflow and implementation
- **Engineers house (HVAC , Firefighting and plumbing systems Design)**
 - This course was about how to design different heating, ventilation, and cooling, firefighting, water supply and drainage systems by using different programs (AutoCAD, Revit, HAP and Elite).
- **Toushiba Elaraby – trainee, Qalyubia, Egypt**
(July2019- August 2019)
 - This training was about Production lines and how to operate them.
- **New and renewable energy authority(NREA)trainee, Cairo, Egypt**
(August 2018 – September 2018)
 - This training was about the new and renewable energy generation in different methods.
- **Cairo Electricity Production – trainee, Cairo, Egypt**
(August 2017 – September 2017)
 - This training was about (Rankine cycle) and the whole operations of the station and Its components in true site and its modification to get maximum power.
- **Egyptian railways maintenance & services – trainee, Cairo, Egypt**
(July 2017 – August 2017)
 - This training was about the idea of the work and maintenance of the different parts Of the trains.

SOFTWARE SKILLS

- Revit MEP.
- AutoCAD
- Solid works.
- Elite
- Microsoft office
- Duct sizer

PERSONAL SKILLS

- Ability to work both independently and as part of a team.
- Punctual and able to meet deadlines.
- Excellent oral and written communication skills.
- Hard working person
- Self-learning

Linguistics skills

- Arabic
- English