

# Hussien Elgammal

## Mechanical Engineer

### Contact Info

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### Summary

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As a dedicated Medical Gas Engineer with over 5 years of hands-on experience, I specialize in the design, installation, and maintenance of medical gas systems in healthcare facilities. My expertise encompasses various critical areas, including compliance with industry regulations, system integrity testing, and troubleshooting complex gas delivery systems.

I am passionate about ensuring the highest standards of safety and reliability in medical gas systems, which are vital for patient care. My background includes collaborating with multidisciplinary teams to optimize gas distribution networks and conducting thorough inspections to uphold regulatory standards.

With a strong commitment to continuous professional development, I stay updated with the latest technologies and best practices in the medical gas field. I thrive in fast-paced environments and am driven by the challenge of improving system efficiency and performance.

I am eager to connect with other professionals in the healthcare engineering space to share insights and explore innovative solutions that enhance patient safety and operational excellence.

### Achievements

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- **Implementation and operation of 7 projects.**
  1. Magdi yacoub global heart center Cairo.
  2. New Giza Teaching hospital.
  3. 500 500 Oncology Hospital - New National Cancer Institute, Sheikh Zayed.
  4. Sky Hospital Fifth Settlement.
  5. Bella Central Hospital in Kafr El-Sheikh Governorate.
  6. Karnak International Hospital.
  7. Infinity hospital.
- **Designed 6 projects according to HTM02-01 As a freelancer.**
  1. Dahab General Hospital.
  2. Mutubas central hospital renovation project.
  3. Shebin El-Qanater Hospital.

4. Merit hospital (sohag).
5. Dallah Medical (polyclinics Qourtobaa &(polyclinics Al arid).
6. Refaat Zeytoun Hospital.

## Employment

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### Air Liquide

**Mar 2022 - Present**

**Job title: Project Installation Engineer**

Main duties performed:

- Responsible for implementing all maps and panels for medical gas networks.
- Follow up all installations of all trades, stations and lines that are installed in the hospital.
- Supervising the tests of all trades lines according to the standard specifications
- Drawing and implementing of shop drawing using AutoCAD for workers and technicians
- Responsible for handing over the consultant's networks project.

### Medical Gas Pipeline SYSTEM(MGPS) Company(EMC)

**Jan 2021 – Feb 2022**

**Job title: Project Installation Engineer**

Main duties performed:

- Responsible for implementing all maps and panels for medical gas networks.
- Follow up all installations of all trades, stations and lines that are installed in the hospital.
- Supervising the tests of all trades lines according to the standard specifications
- Drawing and implementing of shop drawing using AutoCAD for workers and technicians
- Responsible for handing over the consultant's networks project.

### Online Medical

**May 2022 – Mar 2024**

**Job title: Design Engineer (freelancer)**

Main duties performed:

- **System Design:** Proficient in creating efficient layouts and specifications for medical gas systems, ensuring optimal functionality and compliance with regulations.
- **Project Management:** Successfully managing projects from conception to completion, coordinating with multidisciplinary teams to deliver solutions on time and within budget.
- **Regulatory Compliance:** In-depth knowledge of HTM02-01, NFPA and other relevant standards, ensuring all designs meet safety and operational requirements.
- **Technical Proficiency:** Adept at using CAD software and other design tools to produce detailed drawings and schematics, facilitating clear communication with stakeholders.

- **Problem Solving:** Strong analytical skills to identify and resolve issues during the design phase, enhancing system reliability and efficiency.

## Education

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- Hold a bachelor degree in mechanical from faculty of engineering, Zagazig university
- **Graduation date:** July 2019.
- **General grade:** Good.
- **Graduation project title:** Design Of Pump Intake according To American Hydraulic Reference.
- **Graduation project grade:** Excellent.

## Internships

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- **Qarun Petroleum Company:** 2018
  - **Position:** Mechanical engineer
  - This training helped me in terms of pumps, turbines, tanks and gas stations.
  - **Duration:** 1 month.
- **Armored Production and repair plant (200 Elharby)2017**
  - **Position:** Mechanical engineer
  - This training helped me in terms of pumps, compressor, welding and heavy machines.
  - **Duration:** 1 month.

## Skills

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- **Hard skills**
  - 1- AutoCAD& AutoCAD MEP
  - 2- Medical gas pipelines systems (HTM 02-01).
  - 3- Firefighting
  - 4- Hydraulic system.
  - 5- Microsoft office excel: 70%
  - 6- Microsoft office word: 100%
  - 7- Microsoft office power point:100%
  - 8- Basics of Marketing, social media marketing and public relations.
- **Personal skills**
  - 1- Negotiation skills.
  - 2- Teamwork.
  - 3- Planning.
  - 4- Public speaking.
  - 5- Problem Solving.

- 6- Self-motivated.
- 7- Good time management ability.
- 8- Work under stress.

## **Volunteer Work**

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- Manager of Public Relation committee at ENACTUS ZU.
- Chairman of the family committee at union Zagazig engineering.
- Youth coordinator at “Bokra Lena” foundation in Al-Sharqia.
- Project management member at ENACTUS ZU.
- General coordinator of Egyptian Youth Council in Al-Sharqia.
- Logistics Committee member at IEEE.
- Member of UC at Zagazig unlimited team.

## **Language**

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- **Arabic:** Mother language.
- **English:** Good .

## **Personal details**

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- **Date of birth:** 01 / 01 / 1996
- **Family Status:** Married.
- **Military Status:** Finished.