

MAHMOUD ABD ELSALAM

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SUMMARY

Energetic and detail-oriented Project Plumbing Engineer with over 5 years of experience in plumbing and firefighting system design. Skilled in leading projects from concept to construction, ensuring efficiency, compliance, and innovation. Strong expertise in BIM processes, including modeling, automation, coordination, and documentation. Adept at system calculations, design optimization, and cross-disciplinary collaboration. Proven leadership in resource management, project execution, and mentoring junior engineers. Key contributor to BIM development, optimizing workflows and advancing Revit templates for plumbing and firefighting design.

EDUCATION

Tanta University – Tanta, Egypt
BA, Mechanical Power Engineering.

September 2014 – July 2019
Very Good with Honors

WORK EXPERIENCE

Project Plumbing Engineer

January 2025 – Present

SDC (Saudi Diyar Consulting) – Cairo, Egypt

- Led the plumbing design process from the concept stage to IFC, ensuring compliance with project requirements, local codes, and international standards.
- Conducted advanced hydraulic calculations and system analyses for plumbing and firefighting networks, optimizing performance and sustainability.
- Oversaw design development across all project phases (Concept, Schematic, Detailed Design, and Tender), ensuring technical accuracy and seamless progression.
- Provided technical leadership in coordination meetings with clients, consultants, and interdisciplinary teams to drive project efficiency and resolve design challenges.
- Delivered strategic presentations to stakeholders, illustrating innovative design solutions and project milestones.
- Played a key role in BIM implementation, enhancing workflows for collaboration, automation, and interdisciplinary coordination.
- Assisted in departmental resource planning and project management, contributing to high-level decision-making and operational efficiency.
- Mentored and guided junior engineers, ensuring adherence to best practices and quality standards.
- Projects:
 - Meseel, Mixed-use Compound, Riyadh, KSA.
 - FAKEEH Hospital, Jeddah, KSA.

Plumbing Design Engineer

November 2022 – December 2024

SDC (Saudi Diyar Consulting) – Cairo, Egypt

- Developed plumbing and firefighting designs from schematic to IFC, conducting detailed calculations and compliance checks.
- Attended coordination meetings, ensuring seamless integration with other disciplines and resolving design conflicts.
- Assisted in implementing the DELTEK Management System, optimizing resource allocation and project tracking within the Mechanical Department.
- Contributed to the BIM Committee, enhancing collaboration, automation, and documentation processes.
- Delivered technical presentations to clients and consultants, ensuring clear communication of project progress and design intent.
- Projects:
 - Misk Al-Mashriq, Riyadh, KSA.
 - NEOM Hospital, NEOM, KSA.
 - Rua'a Almadinah, Superblock 5, Cluster2, Madinah, KSA.

Plumbing and Firefighting Mechanical Design Engineer

May 2022 - November 2022

ZFP (Al Estesharyoon Zuhair Fayes Partnership) – Cairo, Egypt

- Developed and implemented design criteria for various projects.
- Projects:
 - Qassim Airport, Qassim, KSA.
 - H5 Palace Residence & Hotel for EMAAR, Egypt

Mechanical Engineer

January 2020 - May 2022

ECG (Engineering Consultants Group) – Alexandria, Egypt

- Performed all types of Calculations for Firefighting and Plumbing Systems.
- Implemented design concepts across various project phases.
- As part of the BIM Development team, I was responsible for establishing a new REVIT Template for Firefighting and Plumbing.
- Projects:
 - R5 Zone, New Capital, Egypt.
 - King Abdulaziz Airport, Jazan, KSA.
 - King Salman Air Base, Dirab, Riyadh, KSA.

SKILLS

REVIT MEP NAVISWORKS MANAGE BIM 360

OTHER SKILLS

Communication Time Management Prioritization Problem-Solving

LANGUAGES

Arabic – Native English - Excellent

REFERENCES

Mohamed Alshabasy	Mohamed Amin
Principal Design Engineer, ECG	Lead Plumbing Engineer, SDC
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SAMPLE PROJECTS

The following document highlights selected projects where I played a key role in plumbing system design and coordination. For full details on my contributions, please access the document here: [Mahmoud Abd El-Salam - Sample Projects](#)