

# SEIF EL-DEN AHMED ABDELWAHAB

## MECHATRONICS ENGINEER

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### Professional Summary

Results-driven Fresh Graduate Mechatronics Engineer with experience in MEP design, specializing in HVAC, Fire Fighting and Plumbing Systems, Proficient in Revit and AutoCAD for developing comprehensive 3D models and detailed layouts, ensuring adherence to industry standards and client requirements. Skilled in conducting load calculations and system optimization using HAP, Ashrae Duct Fitting Database, PipeSizer and DuctSizer, leading to enhanced energy efficiency and performance. Adept at collaborating with architects and engineers to deliver innovative solutions on time and within budget. Passionate about leveraging cutting-edge technologies to improve design processes and sustainability in MEP engineering.

### SKILLS

- |                |                                    |                        |
|----------------|------------------------------------|------------------------|
| • Revit        | • Shopdrawing                      | • Team Player          |
| • AutoCAD      | • ASHRAE duct fitting database     | • Work Under Pressure  |
| • SolidWorks   | • Ductsizer/Pipesizer              | • Multitasking         |
| • Coordination | • Microsoft office (Excel-Word-PP) | • Communication skills |
| • HAP          | • Time Management                  | • Problem Solving      |
| • Elite Fire   | • Organization                     | • Quick-Learner        |

### PROFESSIONAL EXPERIENCE

Technical Office Engineer, Fulltime - Smart Aircond by Solvit, Cairo, Egypt      Mar 2025 - Present

- Lead the design and coordination of MEP systems, including HVAC and plumbing, for various projects, ensuring compliance with local codes and regulations.
- Prepare and review technical documentation, including shop drawings, material submittals, and specifications.
- Developed and submitted technical and financial proposals, achieving cost reductions of over 5% by effectively coordinating and understanding client requirements.

Mechanical BIM Engineer, Apprenticeship - Kayan Academy, Cairo, Egypt      Sep 2024 - Jan 2025

- Created detailed 3D models of Mechanical, Electrical, and Plumbing (MEP) systems, including HVAC, plumbing, electrical wiring, and fire protection.
- Coordinated MEP elements with architectural and structural designs to ensure seamless integration.
- Managed MEP installations from inception to completion, focusing on effective scheduling and resource management to enhance system longevity.

### EDUCATION

Oct 2019 - Jul 2024

Bachelor of Mechatronics Engineering

- Canadian International College, Cairo, Egypt – July 2024
- GPA: Very good | 2.96
- Graduation Project Grade: A

### Certifications & Training

- Autodesk Revit MEP - Certificate 2025
- Autodesk Revit Mechanical - Modeling - Certificate 2025
- Hvac & Load Estimation - Engineering House - Certificate 2025
- Revit Mep Course - Kayan Academy - Certificate 2024
- Mercedes Benz Workshop Engineer - Mercedes Benz Intern - Certificate 2023

### LANGUAGES

- Arabic: native language
- English: proficient (speaking, reading, writing)