

ZIAD GOMAA REHAN

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EDUCATION

- **Bachelor of engineering , Mansoura university, faculty of engineering**
Major: Mechatronics engineering (2019 - 2024)
- **Graduation project (smart hospital system)**

-In our graduation project, we made a prototype for a complete hospital with all its systems such as (elevators - fire alarms - gas alarms - automatic doors - IoT system that contains all the information - smart parking - smart bed) on a scale of 1: 1000

-My role was mainly mechanical design, I did the load calculations of the air conditioning system and designed some parts of our project on Solidworks.

TRAINING AND COURSES

- **Engineering house firefighting course (revit - autoCAD).**
- **Eng. Mohamed Emam's electrical distribution and shop drawing course (autoCAD - revit - load calculations and design).**
- **Eng. Ahmed Shuhayb's Hvac course (revit - autoCAD).**
- **Engineering house plumbing course (revit - autoCAD).**
- **IMT embedded systems course.**
- **Work in progress :**
 - KNX
 - BMS
 - Home automation

WORK EXPERIENCE

- **Instrumentation and automation engineer at Evergrow (DEC 2024 - MARCH 2025) (Internship) :**
 - Installing equipment, pipes, valves and sensors.
 - programming siemens PLCs.

SKILLS

1) TECHNICAL SKILLS:

- Fast autoCAD drafting (mechanical - electrical)
- Revit : modelling, service arrangement and clash detection
- Electrical systems design (lighting - power - panels)
- Strong knowledge of international codes like ASHRAE, NFPA and SMACNA
- Load calculations apps : HAP, Dialux, Elite fire protection and DialuxEvo
- Navisworks clash detection
- Familiar with BIM360 workflows
- Light current systems design
- Deep understanding of classic control principles
- Deep understanding of P&ID drawings
- C programming language
- Ladder and function block diagram programming languages

2) SOFT SKILLS:

- Fast learner
- Problem solving
- Teamwork
- Open to develop and learn new things
- Fluent in English