

ABDALLAH AYMAN

Electrical power and Machine Engineer

Contact Information:

- Phone: +966 53 243 1047
- Email: abdallahaymann21@gmail.com
- Location: Riyadh, Saudi Arabia
- LinkedIn: <https://www.linkedin.com/in/abdallah-ayman-4867231b3>

PROFESSIONAL SUMMARY

Electrical Power and Machines Engineer, graduate of the Faculty of Engineering, Ain Shams University. I have worked as a Technical Office Engineer at Aram for Electromechanical Work with almost a year of hands-on experience in site coordination, shop drawings, and project execution. Solid theoretical background in PLC and SCADA systems, along with strong foundations in electrical distribution and energy systems. Committed to delivering efficient and reliable electrical solutions, and eager to contribute to innovative and high-impact projects.

Education:

Bachelor of Engineering in Electrical and Machine Engineering
Faculty of Engineering, Ain Shams University
Graduated: 2024

Experience:

Technical Office and Site Control Engineer

Aram for Electromechanical Work

August 2024 – July 2025

- Designed and reviewed complete **earthing and lightning protection systems** for multiple commercial and industrial projects.
- Coordinated with site teams to ensure proper implementation of grounding systems according to electrical safety standards.
- Created and modified shop drawings using AutoCAD for approval and execution.
- Performed quantity surveying and prepared BOQs specific to earthing and lightning systems.
- Collaborated with consultants and clients to finalize system designs and resolve technical issues.
- Monitored site progress, conducted inspections, and ensured compliance with project specifications and timelines.
- Provided technical support during installation and testing phases to ensure functional and safe electrical protection systems.

Intern, Dar El Kahrbaa Company

2023, 3 months

- Attained extensive expertise in electrical distribution design.
- Proficient in generating and interpreting detailed shop drawings.
- Mastered essential tendering processes within the electrical engineering sector.
- Led projects from inception to successful completion.
- Collaborated cross-functionally to ensure effective project management and execution.

Intern, 99 Military Factory

2022, 3 months

- Acquired comprehensive knowledge of electrical station operations and factory-wide distribution systems.
- Developed foundational skills in PLCs, critical to industrial operations and automation.

Internet of Things (IoT) Course *Orange Digital Center,*

Cairo 2022

- Acquired a thorough understanding of IoT technologies, encompassing sensors, connectivity solutions, and advanced data analytics.
- Applied practical expertise in designing and deploying IoT solutions across diverse applications.

Embedded Systems Course *ITI Center,*

Cairo August 2023

- Specialized in AVR and ARM microcontroller architectures, gaining proficiency in real-time operating systems (RTOS) and embedded system programming.
- Demonstrated hands-on experience in debugging and integrating various embedded system components to optimize performance and functionality.

Recent Projects

Saga Mall 1- Saga Mall 3 - Eltagaly elazam

- Designed and implemented the complete earthing system, ensuring full compliance with Egyptian electrical codes and grounding standards for large-scale commercial facilities.
- Led the technical office efforts in redesigning the lightning protection and grounding network to accommodate structural changes and site conditions.

Hospital Electrical Distribution

- Led the complete electrical distribution design and implementation for a hospital, ensuring reliable power delivery to all critical departments.
- Coordinated layout, panel schedules, and load calculations in compliance with healthcare safety and operational standards.

Field-Oriented Control (FOC) for Induction Motor (Graduation Project)

- Designed and implemented robust hardware and software solutions for Field-Oriented Control (FOC) of an induction motor, achieving a 10% increase in motor efficiency.
- Integrated sensor feedback, advanced microcontroller algorithms, and motor drive circuitry to achieve 5% improvement in speed and torque control accuracy.

Electric Car Project - Battery Assembly

- Contributed to the assembly and integration of batteries for an electric car, ensuring compliance with performance and safety standards.
- Collaborated with team members to optimize battery configuration and installation, enhancing vehicle range and efficiency.

Technical skills

- Strong knowledge of Electrical Distribution systems, including design, planning, and implementation.
- Proficient in AutoCAD and Dialux evo for electrical design and lighting simulations.
- Basic knowledge of Revit
- Advanced proficiency in Microsoft Office (Excel, Word, PowerPoint) for documentation, reporting, and calculations.
- Solid theoretical understanding of PLC and SCADA systems.
- Well-versed in MATLAB for simulation and algorithm development.
- Good working knowledge of Proteus for circuit design and microcontroller simulation.

Language

- Arabic (Native)
- English (Fluent)