

# HOSNY ABDELGHAFAR HOSNY | ELECTRICAL DESIGN ENGINEER

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Riyadh - KSA

[https://www.linkedin.com/in/hosny-abdelghfar-4221b2141?utm\\_source=share&utm\\_campaign=share\\_via&utm\\_content=profile&utm\\_medium=android\\_app](https://www.linkedin.com/in/hosny-abdelghfar-4221b2141?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app)



## Personal Details

- Marital Status : Married
- Nationality : Egyptian
- Driving Licence : Available
- Saudi Council Of Engineers Certificate : Certified
- Transferable Iqama : Available



## Objective

Detail-oriented Electrical Design Engineer with proven expertise in AutoCAD, Revit, and Navisworks, and strong proficiency in Dialux Evo, Autodesk Construction Cloud, and the Microsoft Office suite. Experienced in designing and coordinating electrical systems for building and infrastructure projects, including power distribution, lighting, ELV, and fire protection. Skilled in BIM workflows, 3D modeling, and clash detection to ensure design accuracy, code compliance, and interdisciplinary coordination. Committed to delivering efficient, sustainable, and regulation-compliant electrical solutions that support project innovation and execution excellence.



## Experience

### Dar Alriyadh Consultant

Sept 2024 - Present

Dry Utility Design Engineer

Designed MV, LV, and street lighting networks in accordance with Saudi Building Code (SBC), SEC, and CST standards, ensuring full compliance with project and regulatory requirements.

Developed and reviewed dry utility and ELV system designs, coordinating with sub-consultants to ensure technical accuracy and adherence to service provider guidelines.

Delivered EV charging infrastructure designs for both AC and DC stations, in line with SBC, MoMRA, and SASO standards, covering load analysis, utility integration, and site planning.

Conducted site surveys to assess existing utilities, verify as-built conditions, and ensure alignment with updated master plans.

Managed coordination with vendors, lighting manufacturers, and smart city integrators to ensure timely, code-compliant deliverables.

Participated in client and stakeholder meetings, resolving technical issues and supporting interdisciplinary design integration.

Prepared and reviewed technical documentation, including BoD reports, specifications, review logs, and vendor evaluations.

Supported BOQ development and contributed to cost-efficient, regulation-compliant design optimizations.

Developed innovative electrical designs for increased efficiency.

## Capital Safety Co

March 2023 - Sep 2024

Technical Office And Tender Fire Safety Engineer

Prepared technical and financial proposals for fire protection systems (Fire Alarm, Access Control, Public Address, Clean Agent, CO<sub>2</sub>, and water-based), ensuring compliance with NFPA, SBC, and project requirements.

Developed and reviewed shop drawings (electrical/mechanical) and hydraulic calculations to ensure system integrity and code compliance.

Assessed vendor proposals for technical accuracy and cost-efficiency; prepared BOQs and conducted quantity surveying across project phases.

Coordinated with suppliers and project stakeholders to align design, delivery, and compliance documentation.

Ensured full adherence to Civil Defense and international fire safety standards.

Acted as Electrical Supervision Engineer for the Al-Olayan Office Building, overseeing contractor work, approving materials and drawings, and verifying on-site execution matched project scope and quality standards.

## Cairo For Architecture And Planning (CAP)

July 2019 - March 2023

Electrical Design Engineer

Preparing Design and shopdrawings for all Power systems.

Indoor Lighting Design Using Dialux Evo software.

Power System Design.

Earthing & Lightning Protection Design.

Panel Schedule and Cable Sizing.

Short Circuit & Voltage Drop Calculations.

Bulk equipments Sizing (Tr, Gen Set, MDP, MV SWGEAR).

Power Factor Correction Calculation Report.



## Education

### Helwan University

May 2019

Electrical Power and Machine Engineering

Very Good With Honor (Totality 79.8 %)



## Skills

Microsoft Office

Autocad User

Dialux Evo

Etap

Revit Software

Navisworks Manage

Civil 3d

ACC: Autodesk Construction Cloud

Hydraulic Calculations for fire Pumps

Smart City Managemnet (EFPL University)

Preparing for LEED GA Certificate

Certified NFPA 72 (Course ongoing)



## Projects

### King Abdullah Sports City 2.7 million m2 - Client : Ministry Of Sports

Led the design and coordination of Medium Voltage (MV), Low Voltage (LV), and outdoor lighting systems for a major infrastructure project in the kingdom. Oversaw design compliance with local regulations and SEC/CST standards. Successfully coordinated with subconsultants and vendors—including smart city specialists and lighting suppliers—to ensure the integration of technically sound and cost-effective solutions tailored to market conditions and budget constraints. Ensured timely delivery of design packages through effective stakeholder communication and technical leadership.

### Redevelopment of Al-Arajia Industrial City - Client Al-Riyadh Holding Company

The project involved upgrading the existing infrastructure to meet the latest Saudi Building Code and Development Planning Standards (DPS), including the redevelopment of the Tuwaiq area. My role included supervising and conducting detailed site surveys to assess the condition of the current dry utility network and ensure its compliance with both local and international standards. I was responsible for redesigning and updating the MV, LV, and communication systems in alignment with the new master plan and revised land parcel subdivisions. Additionally, I coordinated with the Saudi Electricity Company (SEC) to determine the new power requirements and identify underground network routing, ensuring the proposed design met both regulatory standards and project needs.

### Infrastructure Assessment & Conceptual Design for Royal Terminals – Riyadh, Jeddah & Dammam Airports

Conducted comprehensive assessments of existing electrical and low current infrastructure networks (MV, LV, ELV, and lighting) at the Royal Terminals of Riyadh, Jeddah, and Dammam airports. Developed conceptual design proposals in alignment with the latest Saudi Building Code (SBC) and international standards, identifying necessary upgrades to meet modern operational and safety requirements. Prepared design basis reports and design constraints documentation, coordinated with stakeholders to ensure compliance and integration with existing systems, and provided technical input on system selection, load estimation, and infrastructure resilience. Also contributed to cost estimation, preliminary BOQs, and supported client meetings and multidisciplinary coordination efforts.

### EZAD Dry Port – Al Dhahirah Region, Sultanate of Oman

Led the design and development of dry utility systems, including Medium Voltage (MV), Low Voltage (LV), ELV, and outdoor lighting networks, ensuring compliance with Omani national codes and standards. Developed the Smart City Concept Report as a value-added proposal, outlining sustainable and technologically advanced infrastructure solutions for the dry port. Prepared design documentation and coordinated with engineering disciplines to ensure integration with the overall master plan. Focused on aligning the infrastructure design with long-term planning, smart logistics, and Oman's strategic development goals under Vision 2040. Also contributed to BOQ preparation, vendor coordination, and technical workshops with stakeholders.



## Languages



Arabic



English



## Reference



Available Upon Request