

# Wassim El Skakini

## Electrical Power & Machines Engineer

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### Profile

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As a graduate of Electrical Power and Machines Engineering, I bring a strong foundation in both on-site and technical aspects of electrical engineering. With hands-on experience in medium voltage cable installation and solar panel installation, I have developed a deep understanding of the practical challenges in the field. Additionally, my current role as a technical engineer has honed my skills in using BIM software like Revit, AutoCAD, and Navisworks, enabling effective coordination with other disciplines such as architecture, mechanical, structure, and plumbing. I am ready and excited to contribute my expertise while continuing to learn new skills, supporting all aspects of electrical engineering across various projects.

### Professional Experience

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#### **Electrical Technical Engineer, First Gulf Company** Dec 2023 – present

- Executed electrical engineering tasks for the Black Gold Museum (BGM) located within KAPSARC, and the Red Sea Museum (RSM) for the Ministry of Culture.
- Handling electrical engineering tasks for Hotel East-1 (HE1) and Hotel West-1 (HW1) in Shura Island for Red Sea Global, including voltage drop calculation, conduit sizing, cable tray, and cable trunk size calculation.
- Revising shop drawings submitted by subcontractors before getting final approval from the consultant.
- Working on BIM software, including Revit, AutoCAD, and Navisworks, to design and coordinate electrical systems effectively with other disciplines, while creating detailed documentation such as panel board schedules and material take-off schedules.
- Produced detailed and coordinated shop drawings, including power distribution, lighting, earthing and lightning protection, and cable containment systems, ensuring all drawings meet consultant approval and implementation on-site.

#### **Electrical Engineer, Advanced United Systems** Sep 2022 – Dec 2023

- Successfully oversaw the installation of solar panels on the roof of Prince Mohammad Bin Abdulaziz Hospital, including all electrical and mechanical work such as inverters, DC cabling, AC cabling, and cable trays. Moreover, we conducted Megger tests for single-core cables (630mm<sup>2</sup>) to check for continuity with the cable tray before final approval to turn on the system.
- Worked collaboratively with Saudi Electricity Company (SCECO) on a project to install Optical Ground Wire (OPGW) cable on existing power transmission lines, resulting in significant improvement in the telecommunication capabilities of the overhead lines.
- Conducted thorough site surveying at Baha University in collaboration with Tarshid to gather accurate measurements of power consumption.
- Oversaw the installation of posts by utilizing the ramming machine Gayk to install the posts, enabling the subsequent installation of the solar tracker and solar panels as part of the mega-scale 1.5GW Solar project in Sudair. Collaborated with the company L&T to deliver successful outcomes.
- Worked on the medium voltage network for the Al Waseel development project, with responsibilities including digging trenches for cable installation, performing cable terminations inside RMUs and transformers, and jointing cables. Additionally, conducted Megger tests on medium voltage cables on-site to check for continuity.

#### **Solar Engineering Intern, Smart Power by Smart Business SAL** Jun 2022 – Aug 2022

- Designed new solar systems and conducted audits on existing systems, ensuring optimal efficiency and performance while adhering to industry standards and regulations
- Composed proposals for the development and implementation of various systems, utilizing effective communication skills to deliver proposals tailored to client needs and requirements.
- Utilized simulation software programs such as SAM to model and analyze solar energy systems, and created 3D drawings using AutoCAD to develop detailed designs for optimal performance, accuracy, and efficiency.

### Education

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#### **Bachelor's in Electrical Power & Machines, Beirut Arab University** Sep 2017 – May 2022

### Skills

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REVIT | Navisworks | AutoCAD | SAM | PVsyst | Ecodial | Dialux

### Certificates

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**Revit MEP Electrical course | Electrical Shop drawing course | Solar Energy Technical Training**

### Languages

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Fluent in English and Arabic