

Mohammad AL-Masri

LEED AP BD+C, CAPM

Personal Data

- **Name:** Mohammad Jafar Al-Masri
- **Date of birth:**11-6-1985
- **Nationality:** Jordanian
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Education

2003-2008 B.Sc. of Mechatronics Engineering

University Of Jordan

Certification

- **June 2010** Certified Engineer in Electrical Installation Design
JEA –Jordan
- **NOV 2009** Certified Associate in Project Management, CAPM
PMI-USA
- **NOV 2008** Leadership in Energy and Environmental Design , LEED AP BD+C
USGBC-USA

Professional Experience

June 2008-Present

Energy Management Services (EMS)

Sustainable Engineer/ Energy Modeler

Review design of buildings and their performance from an environmental perspective and work to provide solutions and measures to increase its efficiency and reduce the impact on the surrounding.

Provide review & analysis for the building design by performing building energy modeling, daylight simulation, and water efficiency management, feasibility of using renewable energy and indoor air quality, and work to investigate feasible measures to increase the building performance.

As LEED AP, support and encourage the design integration required by a LEED green building project and to streamline the application and certification process.

Monitor and review the LEED construction activities on site to meet the LEED requirements.

June 2007 - August 2007

Nuqul group(Quality food company)

Training

Trained in the maintenance department (electrical & mechanical maintenance), the training focus on the main maintenance operations including prevention actions , inspection , testing , how to deal with system failures, and reading electrical diagrams

Some professional work projects participated in

1- Green Building Project Management /LEED Consultancy (2 projects in Jordan , 1 in Egypt and 1 in KSA)

- Review the current building design (architect, MEP, reports...) in order to find the current eligible points.
- Establish and participate in the LEED initiating workshops to educate the designers and contractors about their responsibilities during the LEED process
- Building Energy analysis and review
- Follow up the LEED registration process and participate in assign the responsibilities on the team.
- Provide feedback and support to the owner, designers, contractors ...ect. In order to get more points by changing some of the design parameters
- Provide description for the credits requirements and how the credits could be achieved.

2- LEED supervision in construction phase (2 projects in Jordan and 1 in KSA)

- LEED Construction manager for KAPSARC project in KSA-LEED Platinum project
- LEED Construction manager for Munya Tourism Resort to stream line the certification process to earn the LEED Gold Certification.
- LEED supervision and coordination's for MEI offices in Amman, and follow up the construction activities.
- Develop Erosion and sedimentation control plan, which complies with EPA and LEED requirement, to protect the site during construction.
- Develop and Monitor the LEED construction action plans; IAQM plan, CWM plan and green materials procurement strategy.
- Ensure that construction activities, selected material and the installation process comply with the LEED and design requirements.
- Provide the required calculation and documentation for LEED certification

3- Building Energy Modeling

(More than 30 energy modeling analysis including 4 approved models during the USGBC LEED certification Submission)

- The Energy Modeler for The USGBC approved model for Sabic Plastic Application Development Center –KSA , 23% energy saving and achieving 6 LEED points
- The energy modeler for two approved green building towers in KSA at the design phase (KAFD 3.05 & 3.04)
- The energy modeler for USGBC approved LEED NC project in Amman-Jordan at the design phase

(WHO-new offices)

- LEED Energy modeling Analysis for Sabic Academy Building, and achieving the USGBC approval on 18.09% energy saving as per ASHRAE building performance rating method.
- 31 LEED & EHS projects (3 in Jordan, 7 Qatar, 3 KSA , 1 in Egypt,3 in Lebanon , 1 in Abu Dhabi and 13 in Dubai)
- Energy modeling by whole building simulation using eQUEST and provide green solutions and measures to reduce annual energy usage in comparison with baseline built according to ASHRAE
- The ability to model different and complex systems and create complicated performances curve (VRV, high rise building systems, air cooled VSD screw chiller....ect)
- Streamline the registration process

4- Daylight Simulation

- 10 LEED projects
- Calculate through computer simulation the available amount of daylight lux for the occupied spaces and determine whether the project meet the LEED requirements

5- Renewable energy simulation and Feasibility analysis

- Working on several project in KSA, UAE and Qatar including Tammer energy corner , YALJ Headquarter, KAFD 3.04 &3.05 , WHO Amman
- PV sizing and selection and provide valuable feedback for enabling the client to take a decision regarding using this renewable energy techniques.
- Solar thermal system sizing and selection in order to reduce the domestic hot water energy usage

Communication and Public Speaking Skills

- Training session for the construction team in KAPSARC project-Riyadh
- LEED Marketing presentations, LEED definition
- Project Management Skills & LEED coordination with different LEED parties

Computer skills

- Energy modeling and simulation using eQUEST
- Energy analysis and Daylight simulation using IES
- Building analysis using Ecotect
- Interior lighting design using DIALUX
- PV system analysis using PVSYST & PVWATT
- Solar thermal sizing using RETSCREEN and TSOL
- CFD Modeling using AIRPAK & Design Builder
- HVAC system design using HAP carrier
- Programming using ASSEMBLY, MIKROBASIC and C++
- Electronic circuit design and PCB using PROTUES
- Programming and Design using LABVIEW
- CAD using PROENGINEER & AUTOCAD
- Simulation & Design using MULTISUM and MATLAB

- Design Hydraulic & Pneumatic Circuits using AUTOMATONSTUDIO

Training courses

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| - Wind energy systems and PV power systems | NERC |
| - Certified Program in Electrical Installation Design | JEA |
| - HVAC system design | JEA |
| - Design of Electric Installation Systems | JEA |
| - Energy modeling for LEED requirements | Arranged by EMS |
| - Energy modeling & simulation using eQUEST | Arranged by EMS |
| - PLC | University of Jordan |
| - CAD using PROENGINEER | University of Jordan |
| - MATLAB training course | University of Jordan |
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Languages

- Arabic: Mother tongue
 - English: Very good (reading, writing, listening and speaking skills)
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Qualified memberships

- US Green Building Council (USGBC) - USA
 - Project Management Institute (PMI) – USA
 - Jordanian Engineers Associations (JEA) – Jordan
 - Jordan Green Building Council (JGBC) – Jordan
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References

- Available upon request

Sample of reference projects

Project	Rating system	Role	Description
Project that have reached the final design phase or Construction phase			
KAPSARC Riyadh-Saudi Arabia	2 billion SR LEED platinum LEED NC-V2.2	LEED Construction Manager	Manage the LEED process during construction to achieve the LEED construction credits and prerequisite
SPADC Riyadh-Saudi Arabia	LEED Gold LEED NC-V3	Energy Modeler	LEED energy modeling for EAP2 AND EAC1. The project get the approval from the USGBC on 23% saving and achieve 6 point
WHO Amman-Jordan	LEED Silver LEED NC-V2.2	Energy Modeler	LEED energy modeling for EAP2 AND EAC1. The project get the approval from the USGBC on 24% saving and achieve 4 point
KAFD-3.05 Riyadh-Saudi Arabia	LEED Gold LEED CS-V2.2	Energy Modeler	LEED energy modeling for EAP2 AND EAC1. The project get the approval from the USGBC on 17% saving and achieve 2 point
ECO Towers Abu Dhabi- UAE	LEED platinum LEED CS-V2.2	Energy Modeler	LEED energy modeling for EAP2 AND EAC1 The project achieved 22% Energy saving-Under submission
Sabic Academy Building Riyadh-Saudi Arabia	LEED Silver LEED NC-V3	Energy Modeler	LEED energy modeling for EAP2 AND EAC1. The project get the approval from the USGBC on 18.09% saving and achieve 4 point
Munya Truism Debben-Jordan	LEED Gold LEED NC-V2.2	LEED construction Manager	Manage the LEED process during construction to achieve the LEED construction credits and prerequisite
Aramex Mashreq Cairo-Egypt	LEED Silver LEED NC-V3	LEED manager – design and construction	Project manager until Jan 2011 (Handed over because of other duties)
Meddle east insurance Amman-Jordan	LEED Silver LEED NC-V3	LEED manager – design phase	Project manager during the design phase (Handed over because of other duties)
YALJ head quarter Jeddah- Saudi Arabia	LEED Gold LEED NC.V3	Renewable energy analysis	Study the feasibility of using renewable energy
Tammer Energy Corner Doha-Qatar	LEED Gold LEED NC.V2.2	Energy Modeler/ Renewable energy analysis	Building energy modeling and to Study the feasibility of using renewable energy (Under USGBC review)
Jouri 2 Dubai-UAE	LEED Silver LEED NC-V2.2	Energy modeler	