

Shady B. Zoghby

Mechanical Engineer

Full Name: Shady Beshara Zoghby
Nationality: Lebanese
Date of Birth: 07/06/1983
Place of Birth: Zahle
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Employment History

- **Design Team Leader**
NESMA, Dec 2023
- **Senior Design Engineer**
ERGA, Jan 2022 – Dec 2023
- **Mechanical & Sustainability Design Manager**
SDT International, June 2011 – Jan 2022
- **Head of MEP Department**
EMH Group, June 2010 – June 2011
- **Mechanical Engineer**
BUTECH, June 2009 – June 2010
- **Mechanical Site Engineer**
CLIMTECH, June 2008 – June 2009

Training

- **Project Management**
- Project Management Professional (PMP, 2011)
- **Oil & Gas Industry**
- Oil & Gas Hazard Awareness Certificate (*EPEC*)
- Oil & Gas Safety Management Certificate (*EPEC*)
- Safety & Environmental Management Systems (SEMS II) Certificate (*EPEC*)
- Oil Offshore Oil & Gas Safety (*OSHAcademy, 2018*)
- **Mechanical Engineer**
Sales & Execution (Renewable Energy Technologies)
Technosystems, June 2006 – June 2007

Education

- **Masters' Degree in Mechanical Engineering - Energy & Construction**
(Engineering Diploma, Grade Master Degree)
Lebanese University, Faculty of Engineering, Branch II (Roumieh) /Grad. 2007 – 2008
- **High School Diploma in General Sciences**
Secondary Evangelical School, Zahle /Grad. 2000 – 2001 with honors.

Memberships

- **Order of Engineers & Architects (OEA), Beirut**
OEA# 33351
 - **Lebanese Society of Sustainability Consultants (LSSC)**
Founding Member
 - **Society of Development of Wind and Photovoltaic Energy (SDEEP)**
RET Consultant
 - **The Chartered Institute of Building Services Engineers (CIBSE)**
Member
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Technical Expertise

- **MEP Systems**
 - HVAC
 - Plumbing
 - Fuel & Gas
 - Fire Fighting
 - Air Treatment
 - Water & Wastewater Treatment
 - Compressed Air Systems
 - Vacuum Systems
 - Steam Systems
 - BMS, Monitoring, & Control
 - Irrigation Systems
 - Industrial Processes
- **Site Utilities & Infrastructure**
 - Water Supply (Well, Pumping Station, Distribution, Irrigation)
 - Water Evacuation (Sewer & Storm Network, Treatment)
 - Fire Fighting (Pump Station, Hydrant Network)
- **Sustainability & Renewable Energy**
 - Solar Water Heating Systems
 - Wind Generation Systems
 - Heat Regeneration Systems
 - LEED & BREEAM Certification
 - Photovoltaic Systems
 - GroundSource Heat Pumps
 - NEEREA & Green Load Reports
- **Development & Real-Estate**
 - Due Diligence Property and Facility Condition Assessment (PCA/FCA)
 - Projects Feasibility and Market Analysis.
 - Facility and Property Management
- **Environmental Studies**
 - Environmental Impact Assessment (EIA)
 - Initial Environmental Examination (IEE) and Environmental Screening (EA)
 - Other Environmental Studies (Climatology, Hydrology, Flood Risk Assessment, etc...)

Experience

MEP Design & Consulting

- Lead a project design team of engineers and draftsmen
- Coordinate with client representative
- Coordinate the MEP services with Project Architect/Structural Designers/Life Safety Third Party/etc...
- Quality Control over project deliverables
- Time Management to meet project deadlines
- Tender Package Preparation and Follow-up on Tendering Process
- Prepare Technical and Financial Proposals

Site Supervision

- Coordinate with Client Representative, Designers, Contractors, Third Parties, and Authorities
- Check and Approve Material Submissions, Shop Drawings, and Construction Schedules
- Inspect Executed Works
- Testing & Commissioning
- Prepare Technical and Financial Proposals

Sustainability & Energy Efficiency

- Establish the Department Procedures and Processes to meet ISO 9001
- Apply for and Achieve certified pre-qualification from Ministry of Energy.
- Train and Lead engineers and improve department capacity and productivity
- Register and Follow-up Green Certification (LEED / BREEAM) projects from concept and detailed design, through the construction phase, to completion.
- Perform Energy Simulation, Energy Audits, and Energy Efficiency Implementation projects.
- Perform Water Conservation Value Engineering and Water Efficiency Implementation projects.
- Prepare NEEREA Green Loan Reports for Energy & Water Efficiency Projects in Lebanon, and follow-up with Ministry of Energy (LCEC authority) for approval.

Environmental Engineering

- Establish the Department Procedures and Processes to meet ISO 9001
- Apply for and Achieve certified pre-qualification from Ministry of Environment.
- Train and Lead engineers and improve department capacity and productivity
- Prepare Initial Environmental Examination (IEE) and Environmental Impact Assessment (EIA) for construction projects, and follow-up with Ministry of Environment for approval.
- Prepare and Implement Environmental Management Plans for projects during construction and operation phases.
- Conduct Environmental Auditing

Contracting & Project Execution

- Prepare and Submit Shop Drawings and Material Submissions, including Technical Specifications compliance Sheets, and follow-up with project consultants for approval.
- Supervise site works execution and prepare Inspection Requests for consultants and related authorities for approval.
- Prepare Bill of Quantities, Follow-up on material procurement and project resource allocation.
- Testing & Commissioning
- Prepare and Submit As-Built Drawings, and O&M documentation.

Skills

- **Languages:**
 - English : *Fluent*
 - Arabic : *Fluent*
 - French : *Fair*
- **Software:**
 - BIM & Drafting Software: **REVIT**, AutoCAD
 - Simulation Software: HAP, Elite , RETScreen
 - Presentation Software: MS Office, Adobe Photoshop
 - Planning Software: MS Project, Primavera
 - Engineering Calculation Software and Tools...
- **Professional:**
 - Engineering Design Team Leadership
 - Construction Project Management
 - Quality Control & Time Management
 - Technical and Financial Proposals & Resource Allocation
 - Communication with Clients, Project Teams, Authorities, etc...

Selected Projects

Healthcare Facilities

- Rasafa General Teaching Hospital (490 beds)**
Iraq
- Diwaniyya General Teaching Hospital (500 beds)**
Iraq
- Baaqouba General Teaching Hospital (500 beds)**
Iraq
- Ibn Sina General Teaching Hospital (600 beds)**
Iraq
- U.S. Army Core of Engineers Outpatient Medical Clinic**
Afghanistan
- Shekka Community Hospital**
Lebanon
- Balamand Teaching Hospital**
Lebanon
- Dallah Hospital Extension and Outpatient Building**
KSA
- HHH (Hospital, Hotel, Healthcare Center) - Jeddah**
KSA

Institutional Facilities

- Lebanese Parliament Renovation**
Lebanon
- Canadian Embassy Renovation & Security Gate**
Lebanon
- Qatar Embassy**
Lebanon
- Lashkargah U.S. Army Training Range**
Afghanistan
- KAP-5: 44 Sites for the Ministry of Interior Affairs**
KSA

PCA	<p>Rafal - Kempinsky Tower Riyadh, KSA</p> <p>Omnia Center Jeddah, KSA</p> <p>The Residence Compound Riyadh, KSA</p> <p>KAFD City Riyadh, KSA</p>
Educational Facilities	<p>Notre Dame School Auditorium Keserwan, Lebanon</p> <p>Antonine School Renovation Keserwan, Lebanon</p> <p>SABIS International School Abu Dhabi, UAE</p> <p>Shareborne School - Al Ebb Qatar</p>
Green Building / LEED / NEEREA	<p>Aya Tower Lebanon</p> <p>Zerock Headquarters Lebanon</p> <p>Beirut Waterfront Lebanon</p> <p>Fadel Building - Daoura Lebanon</p> <p>Ketteneh Tower Lebanon</p> <p>District /S Lebanon</p> <p>Beirut Water Front (Zaytouna) Lebanon</p>
Infrastructure	<p>Riyadh Metro - Line 6 KSA</p> <p>Bkher Residential Compound Lebanon</p> <p>Jannat Al Hussein City - Karbalaa Iraq</p> <p>Luseil City Qatar</p> <p>Hiyata Village Water Network Lebanon</p> <p>Bhamdoun Village Solid Waste Management Lebanon</p> <p>Areej Residential Development - Tyre Lebanon</p> <p>Red Sea Development Project KSA</p>

<i>Residential Projects</i>	Byblos Sud Residential Compound Lebanon
	Sustainable City Dubai
	Bkher Residential Compound Lebanon
	Jannat Al Hussein City - Karbalaa Iraq
<i>Industrial Projects</i>	Tripoly, Batroun, Jbeil, & Zahle Wastewater Treatment Plants Lebanon
	Mechariah, Djelfa, & Bayyada Wastewater Treatment Plants Algeria
	Abu Dhabi Battery Energy Storage Stations UAE
	Messaieed Battery Energy Storage Stations UAE
	Exxon Mobil - Qua Ibo Site Nigeria
<i>Environmental Studies</i>	American Embassy New Compound Lebanon
	DAMAC Towers Lebanon
	Exxon Mobil Qua Ebo, Nigeria
	Bchamoun Residential Compound Lebanon
	Ballouneh 110 Residential Compound Lebanon
	Boulevard Heights Tower Lebanon
	B-Central Tower Lebanon
	District /S Lebanon
	Bouyout Daroun Lebanon
	Desert Rock (Red Sea Development) KSA
	Southern Dunes (Red Sea Development) KSA
Kempinsky Hotel KSA	

Doha Port Redevelopment - Marina District

Qatar

Hilton Hotel - Beirut

Lebanon

Hilton Hotel - Jabal Omar

KSA

ABC Dbayeh - First Extension

Lebanon

Tanios Hotel - Aley

Lebanon

Casino Du Liban – Renovation

Lebanon

Ro'Ma Hotel & Center

Lebanon

Kidzmondo - Beirut

Lebanon

Kidzania - Cairo

Egypt

Tahreer Tower

Iraq

Al Rashed Mall & Hotel - Dammam

KSA

Vendome Malls & Hotels

Qatar

Rotana Hotel - Dammam

KSA

Summerland Kempinsky

Lebanon

Converse Stores

Lebanon - Jordan - Egypt

Nike Stores

Lebanon - Jordan - Egypt

KAUST Hotel - Jeddah

KSA

LANGHAM Hotel - Jeddah

KSA

Park Inn Hotel - Riyadh

KSA

ASCOTT Tower - Khobar

KSA

Al Rashed Hotel - Khobar

KSA

Jeddah Formula 1 Arena

KSA