

Ayham Dahbar, Electrical engineer

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CAREER OBJECTIVE

Having more than 14 years of experience in managing electrical and control projects (renewable energy, building automation, UPS, HVAC, and Electrical infrastructure), and 9 years in managing renewable energy projects (telecom sites (2-5KW) , houses (2-15KW) ,small companies like bank (10 – 30 KW), solar pumping (125KW for 100hp water pump,9KW for 7.5hp water pump). The total number is 2000 solar systems and 400 wind systems .

AREA OF EXPERTISE

- Solar & wind energy for telecom sites, solar street lighting, solar pumping, solar traffic lights, solar system for house, and Hybrid (solar +wind) systems.
- Strong exposure in electrical systems (lighting control, HVAC: Heating ventilation and air-condition, UPS: Uninterrupted power supply systems, electrical and control panels, and electrical infrastructure).
- Design the electrical system (study all electrical loads , calculate the cable sections, electrical wiring , electrical panels , control panels, grounding system , and lightning protection systems).

KEY COMPETENCIES

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| • Material quality control | • 500 KW Solar system |
| • Solar trainer with more than 20 presentations | • On-grid solar system |
| • Solar trainer for telecom | • Economic feasibility |
| • Wind turbine trainer for telecom | • Fast charging battery |
| • Solar trainer for NERC | • Zephyr (Airdolphin pro) wind turbine |
| • WatchPower,SolarPro PVsys, software | • Diesel generators |
| | • Dealing with various battery technologies (OPZV, Gel, AGM, Fast Charging Battery, Lithium-Ion, Lead Carbone....) |
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Executed projects

Project description	Position	Company	Year
9KW solar system VFD without battery for 7.5hp submersible pump	Project manager	ETS	2018
125KW solar system VFD without battery for 100HP submersible pump in DerAttieh	Project manager	ETS	2017
Study and present a technical and financial offer to on-grid solar system 420KW tender	Project manager	ETS	2018
Giving Solar Photovoltaic Training Courses for NERC engineers.	Trainer	ETS	2018
2000 solar systems and 400 wind turbines for various applications	Team leader	ETS	2012-2018
government project for “providing traffic lights with solar-electrical power” in Aleppo.	Project manager	Envi-wise group	2010
125KVA UPS system in milkman factory (Damascus).	Project manager	Envi-wise group	2011
Installation of electrical infrastructure: earthing, electrical boards, UPS, HVAC, BMS, SCADA system, lighting systems for Data Center of DSE (Damascus Securities Exchange).	Resident engineer	Souccer for electronic industry	2006
Installation of electrical infrastructure: earthing, electrical boards, UPS, BMS, SCADA system, lighting systems for big Vila in Damascus .	Project manager	Souccer for electronic industry	2008
Installation of a HVAC "controlling" system at police Hospital in Damascus (part of large-scale MEP project "Mechanical Electrical Pumping") .	Resident engineer	Johnson controls	2004

PROFESSIONAL EXPERIENCE

1. 1st May 2012 – 22st July 2018

Alternative power team leader + business development engineer at Mobil Telecommunications Company "**eastern telecom services**".

- Responsible for all electrical installation works related to the renewable energy project (installation, technical troubleshooting, teams management, material availability...) .
- Managing five installation teams including 30 technicians .
- Working with a civil construction contractor, and Monitor civil installations and check if the civil execution works is meeting the designed documents.
- Responsible for technical receipt of materials entering the warehouse (Cables, cable tray, installation accessories) so I became **member of the committee overseeing for procurement**

- **Have installed 2000 solar systems, 400 wind systems** including (Stand-alone solar systems, Off-grid solar systems , solar pumping, Hybrid solar+ wind systems) .
 - Have given training presentations on previous systems for maintenance technician teams (preventive and emergency maintenance technicians) so I became **Trainer**.
 - Have given training presentations on various solar systems for NERC organization: National Energy Research Center in Syria suspended by UNDP (the total period of the training was one month)
 - Study solar system for buildings with large electrical loads (500 KW).
 - Study on-grid solar systems to supply the electrical grid by solar power .
 - Conducted economic feasibility study of solar energy projects and calculate the **ROI**(Return of investment)
 - Solar system sizing : study the electrical loads and chose the correct solar charger, then sizing all PVs, batteries, (and inverters if needed)
 - I have Very good experience with various battery technologies (OPZV, Gel, AGM, Fast Charging Battery, Lithium-Ion, Lead Carbone....) (Hoppike, BAE, SacredSun, Shoto, Ritar, Eversys, Narada.....) and responsible for choosing the right battery type to every project .
 - I have Very good experience with "WatchPower" software for solar inverter, "Solar Pro" software for design solar system and calculate all values for the design (Shadow losses, solar power yearly, ROI ...).
 - Working with Steca (Charge-controller), Suntech, Yingli, LG (Photo Voltage), SacredSun, BAE, Shoto, Narada (Battery @ battery cabinet) , Ammonit (wind measurement), Zephyr (wind turbine) , Techbase (GPRS modem) , Huawei (ICC_500 controller), and Eltek (PowerCube 1000, SmartPack2 controller), Prolink (Solar inverter).
2. May 2009 – November 2011
- Head of Energy Department (solar, wind,& UPS)** at renewable energy company "**Envi-wise group**".
- Technical offer, and BOQ .
 - Implementation of all UPS "Uninterrupted Power Supply" Systems (on-line double-conversion, on-line delta-conversion, line-interactive).
 - work domains (UPS systems , solar street lighting, solar pumping, solar traffic lights, solar-electrical for home& villa, and Hybrid solar systems).
 - Work with Studer (Solar-inverter, UPS systems), Chloride/Emerson (UPS systems), Steca (Charge-controller), Lorentz (PV panels, solar-pump), Phocos (Charge-controller), Ammonit (wind measurement).
3. August 2004 – May 2009
- Building automation engineer** at engineering company "**Souccar for Electronic Industry**".
- Energy Audit on all building projects
 - Technical offer, and BOQ .
 - Work with ABB(BMS EIB/KNX), PcVue (Scada), Advantage(DDC,Data Acquisition), Johnson Controls (DDC,sensors & valves), Honeywell (sensors & valves), Kobold (sensors & valves).
 - BMS including (Fire alarm, Burger alarm, Gas alarm, lighting control, Roller-blind control, access control, camera monitoring, all of them on Scada system).
4. May 2003 – August 2004
- Electro – mechanical engineer** at HVAC company "**Johnson Controls**".

- Technical offer, and BOQ .
- Work with Johnson Controls (DDC controller, (temperature, Pressure, flow sensors), two way, three way valves).

EDUCATIONAL QUALIFICATION & CERTIFICATIONS

Bachelor in Electronic engineering 2000

Damascus University

Certifications:

- Material Quality Control From **APAVE** Lebanon 2016
- Kindly be informed that in April **2015**, while I was working for ETS Company , I went to China for the purpose of diversifying our sources of imported materials to improve the performance of the execution systems and get technologically-advanced materials. Based on recommendation, we signed agreements with many Chinese companies . in edition we went to SNEC-Exhibition in Shanghai city, it was very important and useful trip for about sixteen days.
- Basic Technology and operations of small wind turbine from **Zephyr** japan 2014
- The execution and resolution of solar-thermal system problems from **GTZ**: Germany Agency for technical cooperation 2010

IT SKILLS

- AutoCAD (two dimensions)
- MS Office Suite (Excel, Word, Access, PowerPoint, Outlook, MS Project)

PERSONAL PROFILE

Date of Birth : 14th February 1976

Nationality : Syrian

Marital Status : Married (we have three children), however I can work in any city in Iraq, while my wife and children are in Syria.

Languages : Arabic and English

Visa : Visit

References Available Upon Request