

• A highly competent renewable energy engineer who can be trusted in managing innovative work and delivering quality solution. A multi-skilled, multi-talented and robust self-starter who can beat expectations.



About Me



Nationality: Pakistan
Date of Birth: 06/09/1991
Marital Status: Married



EDUCATION

Master's in Clean and Renewable Energy
 2014-2016, FRANCE
 Percentage: 81%

Master's in New Energy Science and Engineering
 2014-2016, China
 Percentage: 81%

Bachelors of Science in Electrical Engineering
 2009-2013, PAKISTAN
 CGPA: 3.25/4.00

Interpersonal Skills

- Communication Skills
- Innovative & creative
- Teamwork
- Problem Solving
- Leadership
- Self Motivative

LANGUAGE PROFICIENCY

- **English:** Proficient
- **Urdu:** Fluent / Proficient
- **Punjabi:** Native

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**RENEWABLE ENERGY ENGINEER | SOLAR PV ENGINEER |
 ELECTRICAL ENGINEER | POWER SYSTEM ENGINEER**

EXPERIENCE – 7 YEARS

ACADEMIC EXPERIENCE:

OCT 2018	<p>LABORATORY ENGINEER RENEWABLE ENERGY RESEARCH LAB, RESEARCH INSTITUTE OF ENGINEERING AND SCIENCES, UNIVERSITY OF SHARJAH, SHARJAH, UAE</p> <ul style="list-style-type: none"> Manage the Renewable Energy Laboratory (REL) and equipment. Manage and supervise the projects in the Biomass Energy Laboratory. Training of the use of the equipment in the REL for researchers, research assistants and students. Set up and run the experiment related to renewable energy projects. Calibration of the renewable energy system and collect the data. Perform modeling and simulation of renewable energy systems. Analyze the data and perform the necessary calculations. Write technical reports and research articles. Make sure to implement the health & safety regulation and policies. 	 <small>RESEARCH INSTITUTE OF SCIENCES & ENGINEERING معهد البحوث للعلوم والهندسة</small>  <small>جامعة الشارقة UNIVERSITY OF SHARJAH</small>
PRESENT	<p>Research Scholar CHINA-EU INSTITUTE FOR CLEAN AND RENEWABLE ENERGY, HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, WUHAN, CHINA</p> <ul style="list-style-type: none"> Completed 12 technical subject-based course work from European Professors at CEICARE. Research on designing of grid connected PV system and islanding detection under the mentorship of European and Chinese Professors. Performance analysis of maximum power point tracker and islanding detection methodologies. Introduced a variable step size in incremental conductance algorithm to enhance the efficiency of maximum power point tracker. 	
OCT 2016	<ul style="list-style-type: none"> Introduced a variable step size in incremental conductance algorithm to enhance the efficiency of maximum power point tracker. 	
APR 2014	<p>Lab Engineer (Power Lab) The UNIVERSITY OF FAISALABAD, FAISALABAD, PAKISTAN</p> <ul style="list-style-type: none"> Designed experimental manuals for Power Lab and Measurement & Instrumentation Lab. Delivered the demonstration for experiments on power generation, transmission and distribution. Supervised the maintenance of Lab equipment 	 <small>The University of Faisalabad EMPOWERING THE YOUTH FOR A PROSPEROUS PAKISTAN</small>
AUG 2014	<ul style="list-style-type: none"> Supervised the maintenance of Lab equipment 	

INDUSTRIAL EXPERIENCE:



MARCH
2017

SOLAR ENGINEER (PROJECT DEPT.)

ALMADEN MENA FZE, DUBAI, UAE

- Manage projects and provide technical support.
- In hand, experience of MW level rooftop, car parking and ground mounted system designing, implementation, operation & maintenance.
- Complete EPC designing of Solar system according to international standard and local UAE standard.
- Electrical designing of solar system according to the client requirements.
- Preparation of submittals for tendering.
- Proposal preparation with cost and ROI analysis.
- Shadow and system efficiency analysis of designed system.

Key Projects:

- ✓ 2.4 MW Solar Car Parking Project @ Mall of Oman.
- ✓ 1.0 MW Ground Mounted @ Emirates Modern Poultry Farm, Dubai.
- ✓ 540 KW Rooftop Project @ Emirates Modern Poultry Farm, Dubai.
- ✓ 516 KW Solar Car Parking Project @ Sohar City Centre, Sohar, Oman.
- ✓ 427 KW Solar Car Parking Project @ ADNOC Headquarter, Abu Dhabi.
- ✓ 160 KW Rooftop Project @ ADNOC Headquarter, Abu Dhabi.
- ✓ 130 KW Rooftop Project @ TRA, Jabel Ali, Dubai.
- ✓ 130 kW Solar Car Parking Project @ My City Centre Sur, Oman.

SEP
2018

FEB
2014

ELECTRICAL TRAINEE ENGINEER

SITARA FABRICS LTD., FAISALABAD, PAKISTAN



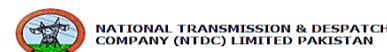
- Accomplished commission, operation, maintenance of electrical control equipment including inverters, VFD's & PFI unit.
- Overlooked the processing machinery such as Singeing, Calendar, Stentor and Comfort machines.
- Led and managed technical work force to meet workload effectively.
- Communicates technicians, both individually and on call, to ensure good two-way communication concerning services issues.
- Monitors the use of inventories of spare parts, equipment and maintenance supplies.

JUL
2014

JUL
2012

Trainee Engineer

National Transmission & Despatch Company LTD, PAKISTAN



- Analyzed the control system and operation of 500kV grid station.
- Studied different type protection on HV & LV side and for grid equipment.
- Studied the Single Line Diagram (SLD) of power system and Power Line Communication (PLC) between grid stations.
- Wrote a brief report on components, operations and protection systems of grid.

JUL
2012

TECHNICAL SKILLS

- **Design Software**
AUTOCAD
PVSYST
PVSOL
SAM
RETSCREEN
SKETCH UP
- **Engineering Software**
MATLAB
iHOGA
GAMS
SciLAB
MP Lab
Proteous
EES
- **Programming Language**
ASSEMBLY
C++
VERILOG
LADDER LOGIC
- **Office Suite:**
Microsoft office

Certificates

- **Huawei certificate** FUSIONSOLAR INVERTER TRAINING
- **CPD certificate on** OPERATIONS AND MAINTENANCE FOR PV SYSTEMS
- **Course certificate on** OIL, GAS, COAL AND ENERGY GLOBAL ISSUES, THE CHALLENGES TO DEVELOP CLEAN AND RENEWABLE ENERGY
- **CPD Certificate on** APPLYING FIDIC CONTRACTS TO THE ENERGY SECTOR
- **ONLINE LAB SAFETY TRAINING certificate** by Central Labs Directorate University of Sharjah

Publications

- [1] **Fahad Faraz Ahmad**, Chaouki Ghenai, Abdul Kadir Hamid, Maamar Bettayeb, “Application of sliding mode control for maximum power point tracking of solar photovoltaic systems: A comprehensive review”, Annual Reviews in Control, 2020. <https://doi.org/10.1016/j.arcontrol.2020.04.011>
- [2] Mohammad AlShabi, Chaouki Ghenai, Maamar Bettayeb, **Fahad Faraz Ahmad** & Mamdouh El Haj Assad, “Multi-group grey wolf optimizer (MG-GWO) for estimating photovoltaic solar cell model”, Journal of Thermal Analysis and Calorimetry (2020). <https://doi.org/10.1007/s10973-020-09895-2>
- [3] Mohamed Abdelsalam, Walid Obaid, **Fahad Faraz Ahmad**, Abdul Kadir Hamid, Chaouki Ghenai, “Modeling and Simulation of a Solar Powered Golf Cart Charging Station in Sharjah”, Renewable and Sustainable Energy - 2020 Advances in Science and Engineering Technology (ASET), Dubai, United Arab Emirates, 2020. <https://doi.org/10.1109/ASET48392.2020.9118204>
- [4] **Fahad Faraz Ahmad**, Mohamed Abdelsalam, Abdul Kadir Hamid, Chaouki Ghenai, Obaid Waleed, Bettayeb Maamar, “Experimental Validation of PVSYST Simulation for Fix Oriented and Azimuth Tracking Solar PV System”, International Conference on Modelling Simulation & Intelligent Computing, Mosaicom2020,DUBAI, UAE. https://doi.org/10.1007/978-981-15-4775-1_25