

Muhammad Saad khan

Career Goal: Looking for perfection and desiring to be a successful professional. Seeking a defiant position in a competitive and growth oriented environment where my abilities and knowledge along with my enthusiasm can be utilized.

Personal Information

Address: House#126, Street#37, Sector G-8/2, Islamabad, Pakistan.

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EDUCATION

○ 2017 – In Progress	MS (Electrical Energy Engineering) United States- Pakistan centre for advanced studies in energy, NUST.	(CGPA 3) Course work Completed.
○ 2011 – 2015	BE (Electrical power Engineering) Air University.	(CGPA 2.83)

WORK EXPERIENCE

Sales and Service Engineer– RET Islamabad

Jun 2018 – Till Date

- Provide technical direction or support to installation teams during installation, start-up, testing, system commissioning, or performance monitoring. Provide technical guidance to other personnel.
- Develop design specifications and functional requirements for residential, commercial, or industrial solar energy systems or components. Determine design criteria or specifications.
- Create plans for solar energy system development, monitoring, and evaluation activities.
- Create electrical single-line diagrams, panel schedules, or connection diagrams for solar electric systems.
- Recommend technical design or process changes to improve efficiency, quality, or performance.
- Perform computer simulation of solar photovoltaic (PV) generation system performance or energy production to optimize efficiency.
- Reinstall software programs or adjust settings on existing software to fix machine malfunctions.
- Provide support in the troubleshooting and diagnosis of grid tie solar inverter issues encountered in the installation and start up products by using general knowledge, product schematics, data stored in knowledgebase, and other sources of information available.

IP Core Internee– ZTE Corporation Islamabad

Jun 2016 – Aug 2016

- Implement IP plan.
- Perform ping testing from CE end to sites and BSC'S at Mobilink office.
- To check the mac address of the sites using the ARP Protocol in case of ping test failure.
- Verify the source IP address, host address and VLAN.
- Node IP, Gateway IP configuration.
- Static route configuration and VRRP switching

Internee – PTCL Headquarters Islamabad

Jun 2014 – July 2014

- Online monitoring of the sensors installed on the plant using SCADA.
- Keeping all documentary records for power plant overhauling.
- Understanding the BMS system of the plant.

- Develop an understanding of the maintenance functions at site.
- Participation in routine maintenance activities and got a practical exposure to various machines and Systems including VFD panels, Bus bars, turbines, generators and circuit breakers.

ACADEMIC PROJECTS & RESEARCH INTEREST

Research Interest: Net Metering, Photovoltaic Devices, Renewable Energy, Demand side Management, Advanced Metering Infrastructure, Smart Grids, Vehicle to Grid, Grid Level storage devices, Power System protection devices.

Projects:

- Energy Efficient Building Management system using PLC.
- Contingency Analysis on Power system.
- Continuation power flow in Smart Grid.
- Rpm sensor using Microcontroller
- Multiple PCB circuit designs.
- Barcode Scanner
- Voltage level Detector
- Arithmetic and logic unit using Arithmetic Gates
- Audio Amplifier
- Magnetic levitation trains
- Online Quiz

PROFESSIONAL SKILLS & PERSONAL STRENGTHS

KEY SKILLS:

Technical Evaluation→ PV modules, Renewable energy systems, MV/LV Switchgears, Motor starters, Transformers, Circuit breakers, MV/LV Motors, UPS and DC chargers.

Software→ MS Office, Power World Simulator, Psim, Win Pro Ladder, Pspice, Matlab, Proteus, Keil, Visual C++, Xilinx, Secure CRT, Cisco packet tracer.

Personal Strengths

- Self-Motivated and Goal Oriented.
- Excellent presentation and speaking skills.
- Ability to succeed under pressure.
- Collaborative Problem Solving & Organizing expertise.
- Prepared to work extra hours to deliver the agreed goals.
- Excellent Interdepartmental Harmonization.

EXTRACURRICULAR ACTIVITIES

○ IEEE PES Centre for advanced studies in Energy, Nust.	Vice President	2018- Present
○ IEEEEDAY Ambassador		2015
○ SKMCH	Student Ambassador	2016
○ Green Volunteers	Volunteer	2015- Present

REFERENCES

- References would gladly be furnished upon request.