Muhammad Saad

Electrical Engineer

Personal Details

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Career Objective

To work in an organization that offers a creative, dynamic and professional environment, where there is maximum chance of learning and grow as a proficient, innovative and committed person. I like to work under challenging and competitive environment with target and time specified jobs at the expense of all my enthusiasm and zest. I have experience in Designing, Procurement, Commissioning, Operation and Maintenance of Electrical Systems in Power Generation and Industrial Sector.

Academics

BSC Electrical Engineering	UET Lahore	2013-2017	3.44/4.00
HSSC	Punjab College Multan	2011-2013	981/1100
SSC	Federal Public School Multan Cantt	2009-2011	989/1050

Employment History

Graduate Trainee Engineer **(23 Nov,2017-To Date)**

Thal Industries, Layyah Sugar Mills, Layyah

I am currently working as a Shift Trainee Engineer, Operation and Maintenance, at Private Power Complex owned by Thal Industries, which is One of the Leading private sector in Pakistan. Layyah Sugar Mill is One of the Largest Sugar Production and Distribution company country wide with the Crushing capacity of more than 15000 Tons/day. Power Complex Owned by Layyah Sugar Mill is Commissioned by NTDC. Layyah Sugar Mills is equipped with the Power Production Capacity of 67MW, Comprising of 26MW TRIVENI Steam Turbine Generator, 16 MW HTC Chinese Steam Turbine Generator, 16 MW AEG,SIEMENS Steam Turbine Generator, 6MW SIEMENS Steam Turbine Generator and 3MW SIEMENS Steam Turbine Generator. Under the Power Purchase Agreement (PPA), out off above mentioned, First two STG's are included in Power Complex and commissioned and utilized only for Power Export to NTDC.

Job and Responsibilities

- Operation of 26MW, 11kV, 65 Bars, 480 ºC TRIVENI, Extraction Condensing Steam Turbine Generator and 16MW, 11kV, 65 Bars, 480 ºC HTC, Back Pressure Steam Turbine Generator on 11kV bus bar. Synchronization of these Generators with 132kV Grid Station Via 132/11kV, 40MVA, OLTC Transformer. Monitoring and controlling the Voltage at 11 kV bus bar.
- Good Hands on Experience on DIEF Controllers provided for the Operation of STG's.
- Good Hands on Experience on Variable Frequency Drives (VFD), ABB ACS 800 and ABB ACS 880.
- Hands on Experience on PAK ELEKTRON (PEL), 11kV and 6.6kV Vacuum Circuit Breakers (VCB).
- Inspection and Troubleshooting of Generators and their related controllers and VCB Panels.

- Routine Maintenance of different Squirrel Cage Induction Motors ranging from 1MW to 1kW rating and related PDBs comprising of Power and Control Circuits in the Mills Section.
- Design and Implementation of Power and Control Circuits for efficient motor working in the Mills Section.
- Research and Development Plans (R&D) regarding optimisation of motors usage and their respected PDBs.
- Design of Various Power Distribution Panels for motors of Centrifugal Machines and Lighting PDBs.
- Shutdown Maintenance of VCB Panels.
- Responsible for Daily Power Export Data Reports and Correspondence with NTDC.
- Weekly Performance Reports regarding Power Generation for Export to NTDC and Power Consumption by auxiliary Boiler and Mills Load.
- Inventory management and control via Enterprise Resource Planning (ERP) software, Microsoft Dynamics AX 2012.
- Budgeting, BMR (Balancing, Modernization and Replacement) and Improvement related to Power Complex Repair and Maintenance.
- Load Management with respect to 65 Bars, 135 Tons/hr, Bagasse Feed Boiler.
- Developing SLDs on Microsoft Visio 2012.

Internships

Thermal Power Station Muzaffargarh (TPS-GENCO III) **4 weeks Summer Internship**

- Gaining practical knowledge and learning field work regarding power plant.
- Brief overview of Quality Control methods.
- Learning management system of power plant.
- Extensive overview of Motors, Generators, Turbines, Transformers, Transmission and Distribution system.

PTCL **4 weeks Summer Internship**

- Overview of Telecommunication system in Pakistan.
- Introduction to Optical Fiber network.

Projects

Final Year Project – “Home Automation and Power Monitoring System”

- Wireless control via android application and desktop application for PC.
- Power monitoring of connected load.
- Current status of loads also depicts monthly and annually consumed power and bill statement.
- Indication of excessive loads that are wasting power.

Other Projects

- ± 24 Volts DC Power Supply
- Sound Amplifier
- Arithmetic Logic Unit
- 32 Bits Microprocessor on FPGA
- Automated Entrance Door
- Auto Balancing 2 Wheel Vehicle
- Obstacle Avoiding Robot

Co-Curricular Activities

- Volunteer in Medical Camp held by Nishtar Hospital (2014-2015)
- Captain of Football team, Section D , Electrical Engineering Department UET Lahore (2013-2017)
- Member Of Official Cricket Team FGBPS Multan (2008-2011)
- Participant in Annual Debating Competitions (All Pakistan) held by Federal Board
- Participant in Annual Essay Competitions (All Pakistan) held by Federal Board
- Volunteer in Shoukat Khanum Memorial Hospital (2015-2016)

Computer Proficiency

Matlab | Proteus | Simulink | WinSpice | C++ | Java | Microsoft Office | Microsoft Excel | Power point | VisualStudio | Latex | Multisim | LSpice | Xilinx | MySQL | Dia | HDL | Power World Simulator | Microsoft Dynamics AX | Microsoft Visio

Interpersonal Skills

Leadership Qualities | Team work spirit | Analytical Skills | Effective Communication | Target Setting | Administrative Skills

Interests

English Literature | Newspaper, Magazines, Novels | Socializing| Sports | Swimming |Biographies | IT

Reference

Will be furnished on demand