



Abdul Samad Khan

Mechanical Engineer Postgraduate

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Address

Karachi, Pakistan.

OBJECTIVE

Disciplined & motivated Mechanical Engineer looking forward to taking on challenging and rewarding opportunity in an exciting organization to successfully attain a position where I can utilize my skills to enhance productivity & reputation.

EXPERIENCES

NED University of Engineering & Technology Karachi

March/2023 - Present

- Working as a Lecturer in Mechanical Engineering Department.
Course: Heat & Mass Transfer (ME-318), Spring 2023.

Gatron Industries Limited

Assistant Engineer

Powerhouse - Operation

Feb/2021 - March/2023

- Successfully contributed as a Gas Turbine Operation Engineer in Powerhouse of total 55MW+ installed capacity.
- Expertly managed operation of Gas Turbine and utilities including:
 - ✓ *SOLAR TAURUS 60* Dual Fuel (Gas + Diesel) Gas Turbine of 5.5 MW.
 - ✓ *Gresham* Heat Recovery Steam Generator (HRSG) of 42 bar, water tube boiler capacity of 16 ton.
 - ✓ *GEA Grasso* Natural Gas Compressor.
- Competently handled operation of Gas Engines including Jenbacher JMS 620 J101 of 3.3 MW and Caterpillar CG - 260 v16 of 4.1 MW Capacity.
- Leading operation of Waste Heat Recovery Boiler (WHRB) of 10 bar.
- Responsible for effective operation of 10 bar Industrial Dual Fuel (Gas + Diesel) Fire Tube Boiler of 11 ton capacity.

PERSONAL INFO



Date Of Birth

26/9/1996



Place Of Birth

Karachi, Pakistan

SKILLS

- ❖ Gas Turbine Operations
- ❖ Gas Turbine & HRSG
- ❖ Gas Engine & WHRB
- ❖ Analytical & Problem Solving
- ❖ Microsoft Office
- ❖ SAP S/4HANA (Basic)

LANGUAGES

- ✓ English
- ✓ Urdu

- Managed operation of Gas Turbine & Gas Engines with HRSG & WHRB to provide continuous Steam supply for effective operation of Vapor Absorption Chillers.
- Effectively performed Plant Load Management by coordinating with other synchronized Powerhouses and managing load accordingly without disturbing Plant Production.
- Efficiently providing uninterrupted Power Supply to critical departments and prevent load shedding / Total Shut down as much as possible. Checking the daily log of Engines + Turbine, Boilers and other (auxiliaries) reading.
- Responsibility to take overall plant round on daily shift basis and finding out of abnormalities. Proficiently practicing and implementing Permit To Work System for any Electrical / Mechanical Maintenance work with safety precautions, monitoring the daily performance of equipment.
- To keep strict eyes on the running equipment parameters and finding of the optimal solution. Also, reporting to the Manager for any abnormal activity in operation of Gas Engines, Gas Turbine, Gas Compressor and Boilers who will then be responsible for managing the operational processes required for the safe operation and rectification of any abnormal behavior of the Powerplant.
- Independently managed whole Power Generation activities with defined SOPs and guidelines to support effective shift operations as per desired criteria.
- Checking of Chemical Lab analysis report of water quality and provide technical support to the operators to maintain it.
- Assist shift operators for smooth operation of the plant and Energy Meter Readings.
- Prepared Fuel Consumption versus Energy Generation Report.

Graduate Trainee Engineer Powerhouse - Operation

Oct/2020 - Feb/2021

- Overall monitoring the smooth operations of Gas Turbine, Gas Compressor, HRSG and Gas Engines with WHRB.

Gatron Industries Limited

Graduate Trainee Engineer Utilities - Operation

Jan/2020 - Oct/2020

- Competently managed operation of HVAC plant including:
 - ✓ Chillers.
 - ✓ Cooling Towers.
 - ✓ Air Handling Units.
- Handled operation of Air Compressor plant including:
 - ✓ Screw & Centrifugal Compressors
 - ✓ Refrigerant Dryers
 - ✓ Desiccant Dryers
- Managed operation of Chillers with Air Handling Units to provide continuous cool air supply to different departments for their effective production.

COURSES

Autodesk AutoCAD

ACHIEVEMENT

Received Prime Minister Laptop

- Responsibility to take overall plant round on daily basis and finding out of abnormalities related to HVAC or Compressor plants. Proficiently practicing and implementing Permit To Work System for any Electrical / Mechanical Maintenance work with safety precautions, monitoring the daily performance of equipment.
- Checking of Chemical Lab analysis report of cooling water and provide technical support to the staff to maintain cooling water quality.
- Assist shift operators for smooth operation of the plant.

EDUCATION

Master of Engineering | Mechanical | CGPA 3.9 **Nov/2019 - Mar/2022**
NED University of Engineering & Technology, Karachi

Bachelor of Engineering | Mechanical | CGPA 3.8 **Jan/2016 - Aug/2019**
NED University of Engineering & Technology, Karachi

INTERNSHIP

Intern **May/2018 - June/2018**
Orient Energy System Pvt. Ltd

PROJECT

Final Year Project (FYP)

Design of HVAC System of NED Auditorium

- ✓ *Determination of cooling load of the Auditorium.*
- ✓ *Designing of Air Conditioning System.*
- ✓ *Designing of Ventilation System*