Muhammad Umair Anwar

CONTACT

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SKILLS

- Programming
- MS Word
- Problem Solving Skills
- Data Analysis
- Inspections
- Electrical Drawings
- Teamwork
- Engineering Support
- **Technical Skills**
- Genset troubleshooting
- Genset commissioning
- Installation and configuration of EMCP series, Deep Sea 45xx, 63xx and FG Wilson (DCP 10) modules
- Installation of sensors
- Installation of battery chargers
- Walk around inspection
- Preventive maintenance Predictive maintenance
- Main alternator reconditioning
- Engine rebuilds.
- Engine parts replacement
- Installation of relays
- Installation of timers
- After Failure Analysis
- Schematic Drawings and Termination Plans
- PIDs of Gensets upon commissioning or installation of new gensets after failure

PROFESSIONAL SUMMARY

Graduate Electrical Engineer with 05 years of experience reliable maintenance engineer with dealership experience. Shares comprehensive knowledge of Gas and Diesel Gensets and Synchronization System. Goes above and beyond to swiftly repair and restore operation. Skilled in Maintenance and Troubleshooting. Looking for a job as an Electrical Engineer which allows me to apply both theoretical knowledge gained from studies and practical experience acquired over time in this field of work in more organized way and will further groom my career.

WORK HISTORY

Maintenance and Service Engineer   01/2023 - Current
Sunrays Textile Mills Power House - Muzaffargarh

- Responsible for M/S and troubleshooting of CAT Diesel & Gas Gensets including Jenbacher and CUMMINS Gensets.
- Synchronization of GAS gensets with each other and with utility using load sharing modules.
- Responded to plant breakdowns and emergency callouts.
- Visually inspect and test equipment's, performing routine preventive maintenance.
- Troubleshoot and repair circuit breakers, magnetic contactors and lighting.

Field Service Engineer   10/2018 - 12/2022

ALLIED ENGINEERING & SERVICES, (CAT) Multan

- Installation, commissioning and troubleshooting of CAT, Olympian and Perkins diesel gensets including C2.2, C3.3, C4.4, C6.6, C7, C9, C11, C13, C15, C18, C32.
- Installation, commissioning and troubleshooting of CAT gas gensets.
- Troubleshooting of CAT Diesel and Gas Gen sets rating from KVA up to 2500 KVA
- Troubleshooting and Maintenance of Olympian series rated from 13.5 KVA to 300 KVA
- Dismantling & Installation of Electrical Attachments on CAT
- Gen sets 3300,3400,3500 and C, E, B, H series.
- Capable of using SIS (Service Information System) • Parts Analyzing • Can perform reconditioning of Alternators (MV & LV) • Participated in technical investigation, studies, problem reviews & provide sound engineering evaluations & recommendations for proposed actions.
- Performed commissioning of G3500H (Natural Gas) gensets

- TA1 and TA2 Reports
- Technical troubleshooting
- Root cause analysis

LANGUAGES

English

Fluent

Urdu

Native

- Responsible for M/S and troubleshooting of different CAT products including Diesel & Gas Gensets used in industrial sectors and textile for power generation.
- Hands on experience in overhauling of machines i.e., top end overhauling, in frame overhauling and major overhauling of 35xx series gas and diesel gensets.
- In-frame & Major Overhauling
- T/S of Terberg and Enercon Control System for CAT Gas
- Gensets
- Synchronization of CAT gensets with utility and each other using load sharing modules
- Programming and flashing of CAT Modules that includes
- ECM's, EMCP 2, EMCP 2+, EMCP1, 4.1, 4.2, 4.3, 4.4
- Performed Commissioning and troubleshooting of CAT Diesel
- Gen sets C7.1, C9, C15 and D3512, D3516B Gensets
- Programming of DCP 10and Deep Sea Modules
- Performed Commissioning's and Troubleshooting's of CAT diesel gensets rating 22KVA to 300KVA
- Caterpillar Electronic Technician usage for troubleshooting of
- CAT gas and diesel gensets
- Cutout Tests and Injector Tests along with calibrations of different sensors of diesel gensets
- Data logging on CAT ET for troubleshooting of gensets
- PDI settings of gensets for stability and troubleshooting of gensets using CAT ET
- Performed M/S and Troubleshooting of
- D3412, C7.1, C9, C15 and various other 3400 and 3500 series diesel gensets
- Can perform TA2 of all gas and diesel gensets.
- Programming of COMAP and Deep-Sea Modules for synchronization of gensets
- Preparation of quotations by using CAT SIS 2.0.
- **FIELD RESPONSIBILITIES**
- Troubleshooting & Fault Analyzation
- Rebuilding and installation of major engine components
- Customer handling and coordination
- Parts analyzing and Inspection.
- General technical analyzing (TA1) & (TA2)
- Preparation of daily reports
- Supervising fabrication activities to maintain satisfactory standards.
- Develop & implement progressive planned and predictive maintenance system.
- Remove, check, and install harness of genset and earth moving machinery.
- Install, configure and troubleshoot EMCP series, Deep Sea 45xx, 63xx series and FG Wilson (DCP 10) modules.
- Managed caterpillar safety standards before start of work.
- Extensive hands-on experience in using caterpillar electronic technician and CAT SIS 2.
- Installation and configuration of load sharing module 2301 installed on 35XX series genset
- After successful upgradation of 3520C (1750kw) to 3520C+ engine (2000kw) at Allied workshop, then install and configure @ customer facility and performed load test Job performed successfully.
- Performed necessary checks on automatic voltage regulator, caterpillar digital voltage regulator.
- **Worked with prestigious customers** i.e. Fauji Fertilizer, Fatima Fertilizer, Atomic Energy Minerals, Dewan Drilling, OGDCL Pakistan, China State

Construction, DG Khan Cement, Abu Dhabi Palace, Dubai Palace, SNGPL Pakistan, Nestle, Mahmood Group of Industries.

- **KEY CATERPILLAR COURSES**
- CAT Electric Power 1
- CAT Electric Power 2
- CAT Electric Power 3
- CAT Electronic Technician
- CAT Electrical Fundamental
- CAT Product link Online Training
- Engine and Generator Sizing
- Preventive Maintenance Generator Systems
- **SOFTWARE**
- CAT SIS
- Electronic Technician ET
- TMI
- SimSi
- PowerNet
- CDVR Programming Software
- Deep Sea Electronics
- Gas Engine Rating Pro
- OLYMPIANS & PERKINS Software

EDUCATION

BSc: Electrical Engineering, 09/2014 - 06/2018
COMSATS UNIVERSITY ISLAMABAD - Sahiwal

Pre Engineering, 09/2012 - 06/2014
Divisional Public School & College - Sahiwal, Punjab

Matric: Science Group, 09/2010 - 06/2012
DIVISIONAL PUBLIC SCHOOL - Sahiwal, Punjab