**MASHAM HABIB**

**Associate Engineer in Automotive and Diesel Technology**
Specializing in Operational, Special Vehicles & Plant Equipment

**Contact:**

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**Professional Summary:**

Highly skilled Automotive Technician with over 24 years of service in the Pakistan Air Force, specializing in the maintenance and repair of a diverse range of vehicles and equipment. Extensive experience with earth-moving vehicles, mobile cranes, aircraft refueling systems, and special off-road vehicles. Proven expertise in diagnosing mechanical issues, performing preventive and corrective maintenance, and managing complex technical projects. Adept at ensuring operational reliability and safety standards.

**Core Competencies**

* **Earth Moving Vehicles (RRR):**
	+ Dump Truck
	+ Wheel Dozer
	+ Wheel Excavator, Chain Dozer
	+ Viberty Roller
	+ Hydraulic Hammer
	+ Sky Light
	+ Concrete Cutting Machine
	+ De-Watering Pump
* **Mobile Cranes:**
	+ Terex
	+ Liebherr
	+ XCMG
	+ konecranes PLC
	+ Zoomlion
	+ Tadano
	+ SANY
	+ Maintenance of hydraulic systems, electrical components, and structural integrity
* **Special Vehicles & Plant Equipment:**
	+ MAN trucks, Mercedes Unimog
	+ Equipment trucks, Ground Power Units
	+ Power management systems for radar and communication systems
* **Aircraft Refueling Systems:**
	+ Operation and maintenance of refueling equipment.
	+ Management of pneumatic, Engine and transmission systems
	+ Handling high-flow and hydrant refueling setups
* **Common User Automotive Vehicles**

**Professional Experience**

**Pakistan Air Force**
Automotive Vehicles Mechanical Fitter / Fleet Manager
August 2000 – September 2024

* **Earth Moving Vehicles & Mobile Cranes:**
	+ Conducted scheduled and unscheduled maintenance, diagnosing, and repairing engine, transmission, and hydraulic systems.
	+ Specialized in Terex RT 600, RT 665, Tadano, and Liebherr cranes.
	+ Maintained and repaired excavators, dozers, dump trucks, concrete cutting machines, and more.
	+ Prepare reports and submit to concern bodies.
	+ Participate in planned audits.
	+ Attend Meetings with contractors and command.
	+ Leading mechanic teams
	+ Ensure team and vehicles / equipment safety.
* **Off-road Special Vehicles & Equipment:**
	+ Serviced MAN trucks, Mercedes Unimog, diesel generators, and hydraulic systems
	+ Installed and maintained off-road radar equipment and mobile radar units.
* **Aircraft Refueling Systems:**
	+ Managed pneumatic and transmission systems, ensuring efficient and safe refueling operations.
	+ Calibrated metering systems and optimized refueling processes.
* **Overhaul & Refurbishment:**
	+ Overhauled and refurbished utility vehicles including Toyota, Mitsubishi, Isuzu, Hyundai, and more.
	+ Utilized digital diagnostic equipment for vehicle sensors and EFI systems.
	+ Conducted inspections, servicing, fault diagnosis, and repairs.

**Education & Training**

* **Diploma of Associate Engineer in Automobile and Diesel Technology**
School of Administrative Trades, Pakistan Air Force
August 2000 – June 2003
* **Advance Course in Operation, Maintenance, and Repair of Mechanized Transport Vehicles**
Field Training Center, Pakistan Air Force
July 2003 – October 2003
* **Military leadership & Command Course** October 2020
* **Human Resources Development Course in Rectification of Service Mechanized Transport**
February 2018
* **Maintenance Course on Aircraft Refuelers**
August 2018
* **Maintenance and Operation Course for TEREX Crane**
September 2018
* **Training Workshop on UNIMOG Vehicles**
March 2021 – April 2021
* **Corrective and Preventive Maintenance course of Earth Moving Vehicles used in Rapid Runway Repair (RRR ) Machines**
September 2021 – October 2021
* **Chiller Plant FAM E-400 Operations**
February 2023

**Technical Skills**

* **Diagnostic Equipment:** Modern digital diagnostic tools for vehicle sensors and EFI systems. Experience with specialized diagnostic equipment such as engine analyzers and hydraulic testers.
* **Scheduled Maintenance**: Expertise in performing routine inspections and scheduled maintenance in accordance with maintenance manuals and regulatory requirements.
* **Preventive Maintenance**: Skills in implementing preventive maintenance procedures to ensure long-term reliability of systems.
* **Fuel Systems**: Knowledge of aircraft fuel systems, including fuel pumps, tanks, lines, and valves, and the ability to perform repairs and maintenance.
* **Vehicle Systems:** Engine, transmission, brake, cooling, hydraulics, steering.
* **Attention to Detail**: High level of precision and attention to detail in inspections and repairs.
* **Problem-Solving**: Strong analytical and problem-solving skills to address complex technical issues.
* **Communication**: Effective communication skills for collaborating with other maintenance personnel and reporting issues.