

# HAMZA SALEEM SHAH

## Mechanical Engineer

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## SUMMARY

Detail-oriented and safety-focused **Mechanical & Hydraulic Supervisor** with over 06 years of experience in static and rotating equipment maintenance within the **Pakistan Navy** and oil & gas sectors. Specialized in the overhauling and maintenance of **centrifugal, screw, gear, and multistage pumps, valves, heat exchangers, and hydraulic cranes** (Tadano, SANY, Demag, Volvo). Proven record in emergency leak rectification, precision measurement, and shipyard operations. Adept in technical documentation, team coordination, and interpreting **P&ID, isometric, and structural drawings**.

## EXPERIENCE

### Mechanical/Hydraulic Technician

#### Trags Trading & Agency LLC (Qatar Energy LNG)

2025 Present Doha, Qatar

- Performed corrective and preventive maintenance on static equipment including centrifugal, Reciprocating and multistage pumps, valves, tanks, and heat exchangers.
  - Diagnosed and rectified mechanical seal failures, performing full overhauls on screw, gear, and positive displacement pumps.
  - Conducted hydrotesting, internal inspection, and box-up of heat exchangers, columns, vessels, and pressure relief valves.
- Used precision tools such as micrometers, depth gauges, and vernier calipers for equipment alignment and clearance measurements.
- Executed hot and cold box-up procedures to minimize downtime during shutdowns and turnarounds.
- Participated in piping fabrication and structural installations, ensuring compliance with ASME and API standards.
- Read and interpreted P&ID, PFD, and isometric drawings to identify mechanical faults and plan maintenance tasks.
- Inspected scaffolding setups and supported safe working at heights in confined spaces and elevated platforms.
- Assisted in rigging and lifting of static equipment, ensuring adherence to HSE protocols.

### Hydraulic Technician – Marine Department

#### Pakistan Navy Ship Building Dockyard

2020 2025 Karachi, Pakistan

- Performed repair and overhaul of marine hydraulic systems on cranes (MN, Tadano, SANY, Demag, Volvo) and ship deck equipment.
- Serviced, overhauled, and tested a variety of hydraulic pumps, including vane, gear, and piston types, ensuring optimal pressure control and reliable system performance in critical marine applications.
- Conducted maintenance on hydraulic steering gear, winches, propulsion controls, stabilizers, and anchor systems.
- Carried out leak detection, pressure testing, and system flushing to maintain hydraulic efficiency.
- Fabricated and installed hydraulic hoses and fittings, ensuring compatibility with high-pressure marine operations.
- Supervised crane disassembly/reassembly and trial operations, ensuring readiness for deployment.
- Prepared technical reports and system logs, documenting fault diagnosis, repairs, and system upgrades.
- Ensured full compliance with marine safety standards and dockyard operational procedures.
- Led toolbox talks, safety briefings, and on-the-job training for junior technicians in shipyard environments.
- Participated in naval dry-docking and commissioning processes for various classes of vessels.

## SKILLS

Hydraulic System Diagnostics & Repair

Heat Exchanger Hydrotesting & Box-up

Valve Maintenance & Pressure Testing

Mechanical Seal Failure Rectification

Steam Trap & Bellow Installations

Multistage Pump Maintenance

Centrifugal Pump Maintenance

Emergency Leak Rectification

Hot Tapping & GLG Systems

Piping Fabrication   Rigging Techniques

Interpretation of Drawings   ASME

Maintenance of Cranes   Piping Codes

Scaffolding Inspection   API

Safety Compliance   Reporting Skills

Precision Measurement Tools   Gauges

Vernier   Micrometer   Quick Learner

## STRENGTHS

### Extensive Mechanical & Hydraulic Expertise

Proficient in maintaining, troubleshooting, and overhauling a wide range of mechanical and hydraulic systems, including centrifugal pumps, multistage pumps, valves, and marine crane hydraulics.

### Shipyard & Industrial Maintenance Experience

Hands-on experience in ship deck machinery, static equipment, and piping systems under high-pressure environments like Pakistan Navy and oil & gas projects.

## EDUCATION

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B.Sc Mechanical Engineering Technology

**Nazeer Hussain University**

📅 2025 Karachi

Diploma of Associate Engineering – Mechanical

**Punjab Board of Technical Education**

📅 2018

Secondary School Certificate (Science)

**Fauji Foundation School and College System**

📅 2013

## LANGUAGES

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**English**

Proficient



**Urdu**

Native



## REFERENCES

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Available upon request.

## STRENGTHS

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### **Strong Technical Interpretation & Precision Skills**

Highly skilled in reading and interpreting P&ID, isometric, and piping plans, along with using precision tools such as micrometers, vernier calipers, and depth gauges for accurate diagnostics.

### **Problem-Solving & Emergency Response**

Proven ability to swiftly identify and rectify critical equipment failures, seal leakages, and emergency maintenance issues with minimal downtime.

### **Safety-Oriented & HSE Compliant**

Committed to following industry-standard safety protocols, including rigging, scaffolding, hot work, and confined space procedures.

## TRAINING / COURSES

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### **HSE & Rigging Safety Training**

Pakistan Navy

### **Precision Measurement & Static Equipment Maintenance**

In-house Training

### **Hot Work & Confined Space Entry Certification**