

Owais Kafeel

A result-oriented engineering professional with over **11 years** of experience

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Facilities / MEP / Utilities Engineer | Energy Management & Sustainability Focused

Seeking a challenging role with a Government Entity, Facility Management Company, Owner Association, Educational Institution, Industrial Plant, or Engineering Consultancy—where I can apply my expertise in MEP, HVAC, Utilities, Energy Management, and IT-integrated systems to enhance efficiency, sustainability, and performance

EXECUTIVE SYNOPSIS

- ✓ A results-driven and technically proficient engineering professional with over 11 years of diversified experience across **Facilities Management, MEP Systems, Utilities, and Energy Management** within **industrial, educational, and oil & gas environments**.
- ✓ Proven ability to lead complex technical operations, including HVAC, fire protection, compressed air systems, GENSETs (including Jenbacher) and cooling towers, with a strong focus on system **reliability, energy efficiency**, and safety compliance.
- ✓ Expertise in **designing, operating, and maintaining HVAC systems**, including chillers (absorption and vapor-compression), boilers, compressors, pumps, and thermal oil heaters.
- ✓ Successfully executed **Kaizen and lean energy initiatives**, reducing downtime, increasing MTBF, and optimizing operational costs through **preventive maintenance strategies**.
- ✓ Implemented smart energy-saving projects such as **Waste Heat Recovery Boilers (WHRB)** and **Energy Monitoring Dashboards** to support sustainability and compliance goals.
- ✓ Strong hands-on experience with **CMMS/CFAM tools** like **OpenMAINT, AssetTiger**, and Excel-based trackers for **preventive and corrective maintenance**, asset scheduling, and cost control.
- ✓ Well-versed in integrating **IT systems with MEP operations**, including network-linked **access control, HVAC automation systems, fire alarm panel integrations, CCTV**, and **smart classroom infrastructure**.
- ✓ Adept in supporting and administering enterprise IT systems: **Active Directory, FortiGate firewall, VMware, Microsoft 365, Google Workspace**, and **Huawei Wi-Fi Controllers**.
- ✓ Successfully led installation and commissioning of major infrastructure systems such as **fire hydrant networks, XLPE curing plants, crossflow cooling towers** and high-efficiency **absorption chillers**, including **Factory Acceptance Testing (FAT)** and coordination with international suppliers.
- ✓ Skilled in **PLC programming, instrumentation, and automation** for enhanced process control and system diagnostics.
- ✓ Track record of managing documentation, technical evaluations, procurement, and material management through **Oracle ERP** and coordination with contractors and consultants.
- ✓ Certified in **Lean Six Sigma, PLC (Delta/Siemens), Instrumentation**, and **Project Scheduling (Primavera P6)**.
- ✓ Committed to continuous improvement, digital transformation in engineering, and sustainable energy practices in line with ASHRAE and ISO standards.
- ✓ Possess strong communication and leadership skills with the ability to manage projects, mentor teams, and coordinate with multidisciplinary stakeholders to meet technical and commercial objectives.

PROFESSIONAL EXPERIENCE



American International School, Abu Dhabi

IT Application Developer | Nov 2021 – Present

- ✧ Led IT support for enterprise infrastructure across school facilities, including **server management**, **network configuration**, **smart classroom systems**, and **user support**.
- ✧ Supported **MEP and facility systems** by managing **HVAC automation**, **BMS integrations**, and **real-time energy dashboards** for temperature and environment control.
- ✧ Managed **access control systems** integrated with **fire alarm panels**, enhancing campus security and compliance.
- ✧ Administered **enterprise applications** including **PowerSchool**, **Synergetic**, **Active Directory**, **Microsoft 365**, and **Google Workspace** for seamless academic and operations support.
- ✧ Configured and supported **Huawei Wi-Fi controllers**, **FortiGate firewalls**, and virtual servers (VMware), ensuring high network reliability for learning and facility systems.
- ✧ Developed in-house solutions such as **attendance tracking automation**, **staff access logs**, and **asset dashboards** using **Excel macros**, **Power BI**, and **Google Scripts**.
- ✧ Implemented **inventory and procurement tracking** for IT and facility assets using **AssetTiger** and internal tools to support CMMS-like operations.
- ✧ Supported routine **preventive maintenance scheduling** using **CFAM-style tools**, aiding engineering teams in HVAC, electrical, and plumbing system management.
- ✧ Handled **vendor coordination**, **RFQs**, and technical documentation for IT-related procurements and systems.
- ✧ Provided training and remote support to faculty and technical teams for both academic and engineering applications.



GASCO Engineering Pvt Ltd, Pakistan, Karachi

I&C Engineer – Oil & Gas Field Services | Jul 2021 – Nov 2021

- ✧ Supervised installation, calibration, and commissioning of critical **field instrumentation**, including pressure, flow, level, and temperature transmitters, control valves, and vibration sensors across upstream and midstream facilities.
- ✧ Conducted **loop checks**, functional testing, and troubleshooting of **DCS, PLC, and SCADA systems**, ensuring seamless control integration and signal integrity across field-to-control room architecture.
- ✧ Managed preventive and corrective maintenance of instrumentation systems at **oil separation plants**, **compressor stations**, and **storage terminals**, minimizing process disruptions and improving HSE compliance.

- ✧ Ensured strict compliance with **API, ISA, and IEC standards**, and supported the development of **instrumentation datasheets**, wiring diagrams, and P&IDs.
- ✧ Supported the commissioning of **fire and gas detection systems**, and coordinated with safety engineers to validate interlocks and shutdown sequences.
- ✧ Played a key role in site **instrumentation audits** and updated the instrumentation index and loop diagrams using AutoCAD and Excel trackers.
- ✧ Collaborated with cross-functional teams including mechanical, process, and electrical engineers for integrated commissioning and system turnover.



Pakistan Cables Ltd, Pakistan, Karachi

Trainee Engineer | Apr 2014 – Jan 2015

HVAC Officer | Feb 2015 – Jun 2018

Sr. HVAC Officer | Jul 2018 – Nov 2020

- ✧ Spearheaded **Kaizen and Lean maintenance initiatives**, leading to a **~10% reduction in mechanical breakdowns**, **~18% decrease in MTTR**, and over **15% increase in MTBF**, improving equipment uptime and production stability.
- ✧ Reduced **moisture content in compressed air systems** through design improvements and monitoring, enhancing pneumatic system reliability and reducing filter replacement frequency.
- ✧ Developed and implemented **Preventive Maintenance (PM)** and **Corrective Maintenance (CM)** systems using structured checklists, RCA tools, and visual management aligned with **5S** principles.
- ✧ Led **Waste Heat Recovery Boiler (WHRB)** optimization and successfully integrated a **high-capacity absorption chiller**, resulting in substantial **thermal energy recovery and cost savings** across utility systems.
- ✧ Supervised and executed the **relocation of critical utility equipment** (chillers, compressors, pumps, boilers) to a new industrial zone, overseeing planning, dismantling, transport logistics, reinstallation, FAT, and commissioning.
- ✧ Collaborated with senior engineering and supply chain teams on **technical evaluations, RFQs, and procurement documentation** using **Oracle ERP**, ensuring compliance with quality, budget, and project timelines.
- ✧ Standardized **SOPs, risk assessments, and asset lifecycle documentation**, increasing equipment traceability and audit readiness.
- ✧ Implemented **online condition monitoring** and digital logging (using CFAM/Excel tools), helping predict failures and trigger proactive maintenance activities.
- ✧ Coordinated with automation engineers for **PLC/SCADA-based control upgrades**, improving real-time diagnostics, energy monitoring, and process optimization.
- ✧ Conducted periodic **energy audits** and benchmarking using in-house tools, identifying excessive loads and initiating power factor correction and equipment upgrades.
- ✧ Supported **ASHRAE standard compliance**, especially in ventilation, indoor air quality (IAQ), and chiller system efficiency across facility zones.

- ✧ Championed **digital transformation in maintenance**, promoting smart CMMS/CFAM platforms (e.g., OpenMAINT, AssetTiger), improving tracking of maintenance KPIs and spare parts inventory.
- ✧ Managed **vendor coordination** for **Jenbacher GENSETs**, absorption chillers, fire suppression systems, and thermal oil heaters, ensuring technical alignment and FAT certification.

KEY PROJECTS

- ✧ **Absorption Chiller Commissioning:** Managed the complete lifecycle—from technical evaluation and procurement to installation, factory acceptance testing (FAT), and final commissioning—of a high-efficiency **absorption chiller** in collaboration with international suppliers, ensuring optimized energy performance and integration with WHRB systems.
- ✧ **XLPE Cable Curing Facility:** Oversaw the design, construction, and commissioning of a **dedicated XLPE cable curing facility**, integrating thermal oil heating systems, process controls, and safety interlocks to meet quality and throughput targets.
- ✧ **Fire Protection Network Implementation:** Directed the implementation of a **fire protection system**, including the installation of a centralized pumping station and **22 strategically positioned fire hydrants**, enhancing plant-wide safety and emergency readiness.
- ✧ **Cooling Tower Expansion Project:** Led the installation of **four 250 TR crossflow cooling towers**, improving the plant's process cooling capabilities, reducing thermal load on utilities, and contributing to overall energy efficiency.
- ✧ **Energy Optimization Initiatives:** Spearheaded integration of **Waste Heat Recovery Boiler (WHRB)** with absorption chillers, reducing fuel consumption and utility costs while improving sustainability metrics.
- ✧ **Critical Equipment Relocation:** Planned and executed the **machine relocation project** during facility transition to a new industrial zone, ensuring safe transport, utility readiness, and minimal production downtime.

EDUCATION

Master of Engineering Management (MEM), Energy Management

NED University of Engineering & Technology, Pakistan | 2015 – 2017

Evening Program (Part-Time) | CGPA: 3.14

Bachelor of Electrical Engineering, Electronics

Usman Institute of Technology, Pakistan | 2009 – 2013

Full-Time Program | CGPA: 3.77

CERTIFICATIONS

- ✧ Lean Six Sigma Green Belt – **PIQC Institute of Quality**
- ✧ Specialized PLC Course – **SkillTech International**
- ✧ Industrial Automation & Electrical Training – **UNDP Youth Program**
- ✧ Project Scheduling & Monitoring – **SkillTech International**
- ✧ National Vocational Certificate (Level 4) – **Instrumentation & Automation**

- ✧ Workshops Attended: **Business Communication, Supervisory Skills, and Management**

TECHNICAL SKILLS

- ✧ **Utilities & MEP Systems:** HVAC, Absorption/Vapor Compression Chillers, Boilers, Compressors, Pumps, Cooling Towers
- ✧ **Energy Management:** Waste Heat Recovery Boilers (WHRB), Kaizen Initiatives, Preventive Maintenance Checklists, MTBF/MTTR Improvement
- ✧ **Software & Tools:** PowerSchool, Synergetic, FortiGate Firewall, Huawei Wi-Fi Controller, IBM Storage, Oracle ERP, Cisco Call Manager (CCM)
- ✧ **Programming & Scripting:** Python, SQL, ASP.NET, AngularJS, Windows Forms
- ✧ **IT Systems & Platforms:** VMware, Active Directory, Microsoft Defender 365, Microsoft 365, Google Workspace

PERSONAL DETAILS

- ✧ Full Name: **Owais Kafeel**
- ✧ Date of Birth: **24-Jun-1990**
- ✧ Nationality: **Pakistani**
- ✧ Languages: **English, Hindi**
- ✧ Computer Skills: **MS Office (Word, Excel, PowerPoint), AutoCAD**
- ✧ Driving License: **Valid UAE License**
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