

NABEEL B

Mechanical Engineer | MBA | MEP | Mechanical Engineer at SRACO Construction Division

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SUMMARY

- **Dynamic and detail-oriented Mechanical Engineer** with 1.5 years of experience in **MEP construction**, specializing in **HVAC, Fire Protection, and Plumbing** systems. Skilled in **site supervision, procurement, testing & commissioning, and project coordination**, ensuring compliance with **NFPA, ASHRAE, SMACNA, IPC, IMC, SBC, and IBC** standards.
- Proficient in handling **material submittals, shop drawings, method statements, and ITPs**, with a strong focus on quality, safety, and efficiency. Adept at **liaising with consultants, managing inventory, and optimizing procurement processes** using **Oracle and internal supply chain systems**, contributing to seamless project execution.

EXPERIENCE



Mechanical Engineer

SRACO COMPANY 02/2024 - Present Ad Dammām, Saudi Arabia

- **Technical Document Review** – Analyze and review Shop Drawings (SD), Method Statements (MST), Material Submittals (MS), Inspection & Test Plans (ITP), Design Change Requests (DCR), Operation & Maintenance (O&M) manuals, Site Technical query (STQ), and As-Built Drawings.
- **Shop Drawings & Procurement:** Prepare shop drawings based on IFC drawings and manage procurement activities as per project requirements.
- **Regulatory Compliance & Safety Monitoring** – Implement and monitor all mechanical works on-site in compliance with approved drawings, methodologies, and safety regulations.
- **Installation & Supervision:** Oversee the installation, testing, and commissioning of HVAC, firefighting, and plumbing systems, ensuring compliance with NFPA, ASHRAE, SMACNA, IPC, IMC, SBC, and IBC.
- **Site Inspections & Compliance** – Conduct regular site inspections, including Work Inspection Requests (WIR), Material Inspection Requests (MIR), and RFQI with clients.
- **Quality Assurance & Compliance** – Perform inspections of all mechanical permanent works to ensure compliance with project specifications and drawings.
- **Project Coordination:** Work closely with Electrical, Architectural, and civil teams to avoid conflicts and ensure seamless execution.
- **Construction Sequencing & Execution** – Ensure proper sequencing of site activities based on construction drawings, approved method statements, and ITPs.
- **Stakeholder Collaboration:** Coordinate with clients, consultants, and subcontractors for site inspections, approvals, and issue resolution.
- **Material & Inventory Management:** Estimate material requirements, place orders, and track supplier deliveries to maintain workflow.
- **Equipment & Instrumentation Verification:** Verify calibration certificates for all equipment and instruments used on-site.
- **Quality & Safety Compliance:** Implement OSHA safety regulations and quality standards, ensuring all site activities meet project specifications.
- **Testing & Commissioning** – Supervise and coordinate testing and commissioning activities, ensuring all systems function as per design specifications while maintaining comprehensive documentation of results.
- **Project Handover & Closeout:** Supervise system commissioning, validate design changes, and facilitate smooth project handover.

PROJECTS

KFUPM - KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS

02/2024 - Present Dhahran, Saudi Arabia

Construction of students Housing Building (270M SAR)

- Client: King Fahd University of Petroleum & Minerals (KFUPM)
- Consultant: Zuhair Fayeze Partnership (ZFP)
- Project Cost: **270 million SAR**
- Project Duration: 30 Months (Expected Completion: 2026)
- Built-up Area: 26,000 m²
- Handling MEP installations (HVAC, firefighting, plumbing, and utilities).
- Managing procurement, material inspections, and compliance checks.
- Coordinating with consultants, contractors, and suppliers to ensure smooth execution.

INSTALLATION OF NEW COOLING TOWER MANAZIL PLANT - KFUPM

10/2024 - 10/2024 Dhahran, Saudi Arabia

Successfully installed and commissioned a Tower Tech TTXR-121950 induced draft counter-flow open-type cooling tower with VFD fans at King Fahd University of Petroleum and Minerals (KFUPM).

- Supervised the installation of the modular cooling tower, ensuring proper assembly and alignment.
- Coordinated with Tower Tech **USA** for delivery, technical specifications, and compliance.
- Integrated VFD fan system to enhance operational efficiency and energy savings.
- Conducted system checks and commissioning to ensure optimal performance.
- Ensured adherence to safety standards and project requirements.

SKIDDING AND INSTALLATION OF VARIABLE FREQUENCY WATER-COOLED CHILLER

05/2024 - 11/2024 Dhahran, Saudi Arabia

Skidding & Installation of YMK Water-Cooled Centrifugal Chiller

- Successfully skidded, installed, and commissioned a YMK water-cooled centrifugal chiller, ensuring seamless integration into the existing HVAC system.

RE-ROUTING OF EXISTING HIGH PRESSURE KFUPM WATER LINES & SEWER LINE

03/2024 - 06/2024 Dhahran, Saudi Arabia

Re-routing KFUPM's high-pressure water and sewer lines to support new infrastructure with minimal disruption.

- Spearheaded the re-routing of high-pressure water and sewer pipelines, ensuring adherence to Saudi Aramco safety and quality standards.

EXPERIENCE



Engineer Intern

SRACO COMPANY 07/2023 - 07/2023 Ad Dammām, Saudi Arabia

- **Boiler Plant Operations:** Hands-on experience with the feed pump, circulation pump, and feed water tank for efficient steam production.
- **Steam Distribution & Valves:** Gained insights into steam transfer via pipelines and regulated by steam regulators.
- **Air Handling & HVAC Systems:** Assisted in the operation of AHU (Air Handling Units) and FAHU (Fresh Air Handling Units) to manage hospital air quality.
- **Water Treatment & Filtration:** Observed multi-media sand filtration and reverse osmosis (RO) systems for water purification.
- **Firefighting & Emergency Systems:** Gained experience with fire pump systems (including jockey pumps, diesel pumps, and electric pumps) to ensure the hospital's firefighting network is functional and reliable.



Visiting Fellow

Imam Abdulrahman Bin Faisal University 06/2023 - 06/2023
Dammam, Saudi Arabia

- **HVAC Systems:** I gained hands-on experience with air handling units (AHUs), air-cooled and water-cooled chillers, and steam boilers.
- **Fire Safety Systems:** I worked with FM 200 fire suppression systems and fire pumps, learning how these systems protect high-risk areas like server rooms and medical units.
- **Plumbing & Water Systems:** I observed the operation of booster pumps, expansion tanks, and pump pits, ensuring reliable water distribution across campus.
- **Building Management Systems (BMS):** I explored the BMS room, which controls HVAC, lighting, and security systems.
- **Power Distribution & Infrastructure:** I studied the power distribution panels, substation switchgear, and backup generators that supply critical energy to the campus.



INTERNSHIP TRAINEE

Lucas TVS 07/2022 - 07/2022 Chennai, India

- **End-to-End Production:** Learned the complete production cycle for starter motors, alternators, and other components, from component fabrication to final assembly.
- **Manufacturing Techniques:** Gained exposure to CNC machining, die casting, and automated assembly processes essential for precision automotive components.
- **Quality Control & Testing:** Assisted in ISO-standard testing such as CMM, hardness testing, and reliability assessments to meet stringent performance criteria.
- **Heat Treatment & Surface Engineering:** Studied induction hardening, case hardening, and tempering to improve the durability and performance of components.
- **Proving & Reliability Testing:** Participated in vibration analysis, thermal cycling, and endurance testing to validate the performance and longevity of products.

EDUCATION



Master of Business Administration - MBA, Business Analytics

SRM Institute of Science and Technology
01/2024 - Present Chennai, India



Bachelor of Engineering - BE, Mechanical Engineering
Anna University

08/2019 - 05/2023 Karaikudi, India GPA 8.7 / 10



Master Diploma in Design, Engineering Design
MEE CADD

03/2022 - 12/2022 Karaikudi, India GPA 10 / 10

PROJECTS

ARAMCO'S BERRI GAS FACILITIES
EXPANSION – EXECUTION OF BUILDING
WORKS (NON-CRITICAL CONCRETE &
METAL BUILDINGS)

02/2024 - 02/2024 Al Jubayl, Saudi Arabia

Selected for the project but later reassigned to another high-priority project.

- Client: **Saudi Aramco** / SNAMPROGETTI Saudi Arabia Co. LTD (Saipem)
- Project Location: Abu Ali Plant, Berri Development, Eastern Province, Saudi Arabia
- Project Duration: 24 Months (Expected Completion: 2025)
- Built-up Area: 15,700 m²

LANGUAGES

English



Hindi



Tamil



Malayalam



Arabic



CERTIFICATION

Google Project Management

Google / Coursera

Basics of Scrum

Project Management Institute

Agile Explorer

IBM

AutoCAD

Autodesk / MEE CADD

Machine learning

Infosys Springboard

Project trainee

Lucas TVS Ltd

INDUSTRY EXPERTISE

HVAC Systems



Fire and Life Safety



Plumbing Systems:



Infrastructure & Utilities



KEY ACHIEVEMENTS

💎 RE-ROUTING OF EXISTING HIGH-PRESSURE
KFUPM WATER & SEWER LINES

Successfully executed pipeline re-routing, saving millions of Riyals by optimizing project execution, ensuring compliance with Saudi Aramco standards, and enhancing operational efficiency.

SKILLS

Technical Expertise

- HVAC Systems & Energy Efficiency
- Building Information Modeling (BIM)Mechanical Inspection & NDT
- AutoCAD & RevitMEP coordination & Installation

Project Management & Operations

- Agile & Lean ConstructionRisk & Stakeholder Management
- Project Planning (Primavera P6)Procurement & SCM (ORACLE)
- Commissioning & Handover Processes

Leadership & Management Skills

- Decision Making under pressure
- Effective communication & Negotiation
- Conflict Resolution & Team Management
- Time & Resource ManagementStrategic Thinking & Innovation

AWARDS

-  **FIRST CLASS DISTINCTION**
Awarded First-Class Distinction for outstanding academic excellence, demonstrating exceptional performance and mastery in my field of study.
-  **CERTIFIED FOR EXCELLENCE IN SAFETY COMPLIANCE**
Recognized for adhering to OSHA and NEBOSH safety standards during my project, ensuring a safe and compliant work environment
-  **NATIONWIDE CANCER CONTROL PROGRAM – CANCER AID TRUST**
Recognized for actively spreading cancer awareness and contributing to fundraising efforts as part of a nationwide initiative.
-  **CERTIFICATE OF APPRECIATION FROM MINISTRY OF HEALTH, KSA**
Awarded for dedicated volunteering efforts, contributing to community health initiatives and supporting public welfare programs.

TRAINING / COURSES

- BMS OPERATION – SIEMENS
- CHILLER INSTALLATION – YORK
- OSHA
- NFPA
- ASHRAE