

Mohamed Harith Sharif Hussain

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Professional Summary

Experienced Chemical Engineer and Projects Manager with over 13 years of combined experience spanning process engineering in the oil and gas sector and project management in ELV integration and smart home automation. Brings over 7 years of expertise in process optimization, safety management, risk assessments, process design, asset integrity management, and troubleshooting complex engineering challenges, with extensive knowledge of API, ADNOC, and Shell standards, equipment degradation analysis, and process safety management. Complementing this technical background are 6 years of successfully managing end-to-end ELV and smart home automation projects, overseeing multidisciplinary teams, coordinating stakeholders, ensuring quality, budget, and schedule compliance, and delivering integrated technology solutions. Proficient in industry-standard engineering tools, including ASPEN HYSYS for process modeling, with a proven ability to lead cross-functional teams, adapt to diverse industries, and drive both operational excellence and strategic project delivery.

Work Experience

Projects Manager | White Matter Systems | Abu Dhabi, UAE

2021 – Present

- Managed ELV and Smart Home projects from initiation through successful handover, ensuring delivery on time, within budget, and to the required quality standards.
- Planned, coordinated, and supervised engineering, procurement, installation, testing, and commissioning activities.
- Served as the primary point of contact for clients, consultants, contractors, suppliers, and internal stakeholders.
- Monitored project schedules, budgets, resources, risks, and progress, implementing corrective actions as required.
- Oversaw subcontractors and site teams to ensure compliance with project specifications, safety regulations, and quality standards.
- Managed project documentation, technical submittals, variations, progress reports, and handover documentation.
- Ensured successful system integration, testing, commissioning, and client acceptance of all installed systems.
- Supported commercial activities by monitoring project costs, managing change orders, and maintaining project profitability.
- Fostered strong client relationships through effective communication, issue resolution, and high-quality project delivery.
- Ensured compliance with company policies, contractual requirements, and applicable industry standards throughout the project lifecycle.

Operations Engineering (Shift) Supervisor | ADNOC Gas Processing | Abu Dhabi, UAE

2013 - 2021

- Oversaw the smooth operation of key processing units, including Sulfur Recovery, Acid Gas Removal, and Tail Gas Treatment, ensuring compliance with safety standards.
- Conducted detailed risk assessments, hazard analysis, and participated in HAZOP studies for operational safety.
- Performed process engineering calculations and evaluated equipment performance, ensuring alignment with ISO, API, ADNOC and Shell standards.
- Designed process optimization strategies, including energy usage reduction and chemical consumption management.
- Analyzed data from P&IDs, process flow diagrams, and piping isometrics to identify system bottlenecks and recommended improvements.
- Prepared comprehensive shutdown reports and led initiatives to address corrosion and integrity issues across key units.

Key Achievements:

- Solved a significant Sulphur Recovery Unit corrosion issue, generating substantial savings and increasing operational longevity.
- Reduced emissions and operational costs by \$8.3 million through the resolution of Tail Gas Treatment Unit foaming problems.

Case Studies and Problem-Solving Initiatives:

- Sulphur Recovery Unit Corrosion: Identified the root cause of frequent corrosion in the rundown pit ejector lines despite stainless steel material usage. Recommended immediate and long-term solutions.
- Tail Gas Treatment Unit Optimization: Resolved a long-standing regenerator foaming issue, generating \$8.3M in savings and reducing environmental emissions.
- Glycol Discoloration and pH Issue: Investigated and solved issues related to glycol discoloration and a sudden pH increase, enhancing system efficiency.
- Amine Concentration Impact Study: Analyzed the operational and integrity effects of increased amine concentration on Acid Gas Removal units, including process engineering and corrosion rate assessments.
- Shutdown Analysis Report: Compiled lessons learned from a warranty shutdown in Sulphur Recovery Units, identifying Claus catalyst deactivation and damage causes, and providing actionable recommendations.
- Ammonium Bisulphide Corrosion Prevention: Addressed Ammonium Bisulphide corrosion in the Tail Gas Treatment Unit by recommending ammonium salts analysis in routine water samples and proposing solutions for unexpected ammonia presence.
- De-Superheating Station Design: Proposed and designed a de-superheating station, including valve sizing, calculations, and preparation of data sheets.

Education

Master of Engineering in Chemical Engineering

The Petroleum Institute | Abu Dhabi, UAE | 2013 - 2016

Bachelor of Science in Chemical Engineering

The Petroleum Institute | Abu Dhabi, UAE | 2008 - 2012

Skills

- Process Safety Management & Risk Assessments (HAZOP, API RP 571)
- Process Simulation & Modeling (ASPEN HYSYS)
- De-superheating Systems Design & Analysis
- Asset Integrity Management & Corrosion Control (API 510, 570, 571)
- Process Engineering Calculations and Process Optimization & Debottlenecking
- Data Interpretation (P&IDs, PFDs, Piping Isometrics and PI trends analysis)
- Project Management & Report Preparation
 - Project Planning & Execution
 - ELV Systems Integration
 - Smart Home Automation
 - Budget & Cost Management
 - Schedule & Resource Management
 - Risk & Change Management
 - Stakeholder & Client Management
 - Team Leadership & Cross-functional Coordination
 - Vendor & Subcontractor Management
 - Procurement & Contract Administration
 - Quality Assurance (QA/QC) & HSE Compliance
 - Testing, Commissioning & Project Handover
 - Technical Documentation & Reporting
 - Problem Solving & Decision Making

Internship Experience

Intern | BASF - OASE Gas Treating Excellence | Ludwigshafen, Germany

July - September 2012

- Investigated new methods for Acid gas removal from Natural gas using nanomaterials.
- Studied conventional methods for Gas Treating and applied learnings to project development.

Research Experience

Synthesis of Graphene | The Petroleum Institute | Abu Dhabi, UAE

2011 - 2013

- Conducted extensive research in the synthesis of thermally-reduced Graphene.
- Utilized XRD, BET, FT-IR, TGA, and Raman spectroscopy for material characterization.
- Investigated developing innovative methods for producing 2D nanomaterials.

Model IRENA | The International Renewable Energy Agency (IRENA) | Abu Dhabi, UAE

April 2015

- Represented the United Arab Emirates, opened the simulation council and served as one of the two Rapporteurs responsible for compiling the outcome documents.