Mas'oud Al Nayari

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Profile

Lean Six Sigma Green Belt | Senior Business Analyst & Performance Management Specialist with BEng in Chemical & Process Engineering and MSc in Computer Science

Over 12 years of experience in the oil refining sector, from operations and engineering to technology and benchmark and business improvement

Currently as a **Principal Benchmarking & Performance Management** in the Business Improvement function of OQ Refineries and Petrochemical Industries stream

Education

BEng in Chemical & Process Engineering
from Sultan Qaboos University, Oman
Completed in 2010, Very Good

MSc in Computer Science
From Newcastle University, UK
Completed in 2020, Distinction

Other Courses

1. **Machine Learning Engineering for Production** (MLOps) by Deeplearning.ai and Google Tensorflow team
2. **Front-End Web UI Frameworks and Tools: Bootstrap 4,** Coursera
3. **Neural Networks and Deep Learning,** Coursera

Professional Certificates

Lean Six Sigma Green Belt, 2023

IBM Data Science

Professional Experience

1. Principal Benchmarking & Performance Management (Jun-2021 to Now), OQ

Overview

My main responsibility is leading the benchmarking and the performance management teams in OQ RPI (OQ Refineries and Petrochemical Industries). We manage and deliver all benchmarking studies and monitor and report RPI operational performance.

Some Projects and Achievements

- Facilitated performance improvement workshops which covered three performance categories; energy, maintenance, and operating costs, to close the gaps identified in the 2020 Solomon study,
- Delivered the 2022 Solomon Benchmarking study for three refineries and an Aromatics plant,
- Initiated a performance gap analysis based on the study results,
- Supported Salalah Methanol company with their 2023 Global Methanol Benchmark Study by PTAI,
- Scoping a contract for delivering benchmark studies for OQ plastics complex LPIC,
- Co-facilitated a company-wide transformation program of OQ RPI which aims at reaching a breakeven by 2024,
- Developed performance monitoring dashboards in Power BI
- Developed a fully automated, user-friendly tool for calculating and monitoring the downstream Energy Intensity Index (EII) in MS Excel
- Work with the corporate planning team and RPI leadership members to set annual KPIs for RPI every year,
- Implementing Continuous Improvement (CI) culture within the team
  - Done CI awareness session and planned the CI improvements together,
  - Completed Standard Operating Procedures (SOPs) for the critical processes,
  - Took customer feedback and improved the RPI performance reports,
  - Improved the way the team approaches different tasks and involved customers more,
  - Utilized the PDCA principles in the work,
  - Developing visual management boards for the important leading and lagging KPIs,
- Seconded 5 months to the newly established Oman's National Program for Investment and Export Development (Nazdaher) as a senior business analyst, in July 2022. I supported the program in developing strategies and plans for the Business Framing and Business Development departments. I also helped the Performance Management department in establishing systems for data analysis and program performance monitoring.

2. Data Scientist (Oct-2020 to Jun-2021), OQ

Overview

I was part of the newly formed Digital Transformation team. The team was responsible for transforming the organization from staffing and administration to operations and marketing using digital technologies and solutions.

Skills
- Data analysis and data management
- Data visualization
- Continuous Improvement and Lean Six Sigma
- Technical report writing
- Performance management
- Project planning
- Benchmarking of oil refining
- Process engineering
- Mass and energy balance
- Software engineering
- Multi-language programming
- Fast learner of applications

Tools & Technologies
- MS Office Suite applications
- Advanced MS excel including vba, Pivot tables, data models, solver, advance formulae combination
- MS Project for project management
- MS Power BI for visualization
- Minitab for lean six sigma
- AVEVA/ OSIsoft PI System; PI Datalink, AF, Process Book, Coresight and Vision
- SQL and database management,
- Programming (java, c#, python, html, CSS, JavaScript, php)
- Website development (beginner)
- Machine learning, neural networks, TensorFlow, Keras, pandas, data modelling, Jupyter Notebook, Google Colab Notebook, MATLAB
- Process Simulation tools (HYSYS, Petro-SIM, PROII)
- Game development using Unity 3D

Languages
- Arabic (mother tongue)
- English (very good, latest IELTS; 7.0)

Projects and Achievements
- Framing a strategy and a plan for improving the digital maturity level of the employees; and creating an animated video covering the modeling and data analytics part
- Co-worked on two digital projects;
  - Predictive Maintenance for the MEG unit in the Upstream
  - Digital Turnaround solution in the Downstream
- Part of the Integrated Management System (IMS) leadership team in OQ Downstream

3. **Central Process Engineer / Sr. Engineer** (Oct-2013 to Sep-2019), **OQ/ Orpic**

Overview
I was part of the Central Process Monitoring team which manages benchmarking studies, technical services agreements, the budget of the Technical Services division, and other non-technical work of the Process Engineering department. Additionally, the team is responsible for monitoring plants' performance (operational, environmental, energy, and maintenance), validating and monitoring the performance of the process improvement ideas (Quick Wins), supporting the OMT managements in setting and monitoring the annual KPIs, and managing the data historian (OSIsoft PI system).

Projects and Achievements
- Benchmarking
  - Participated in three Solomon Fuels Refinery Benchmarking studies, out of which I led and managed two (2016, and 2018)
  - Participated in one (2018) PTAI benchmark study for the Aromatics plant
- Plant performance
  - I developed spreadsheets coupled with macros for automatically calculating Orpic operational performance
- Quick Wins (QW) (improvement ideas)
  - Improved the system used in monitoring the QW performance
- Annual Business Plan
  - Assisted in setting the annual corporate KPIs by transforming LP model output into KPIs aligned with Solomon methodology
- OSISoft (now AVEVA) PI System
  - PI power user; used PI AF, Process Book and PI Vision to create real-time dashboards for OMT teams

4. **Process Engineer** (Oct-2011 to Oct-2013), OQ/ Orpic

Overview
I was part of a team of process engineers providing day-to-day support to the operations teams. The support includes process optimization, utilities and energy optimization, and process troubleshooting.

5. **Field Operator** (Dec-2010 to Oct-2011), OQ/ PolyPropylene Plant (PP)