

FUAD SALEH, P.Eng.

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Technical Expertise • Accountability • Versatility & Practicality

14+ Years of Plant Experience in Operations Technical Support

Quality-focused Professional Engineer with a proven track record in planning and executing plant operations and technical services in the Petrochemicals and Energy sectors.

Technical skills include MS Office Suite (Word, Excel, PowerPoint, Outlook, Visio), Aspen HYSYS, AFT Fathom, CONVAL 11, Emerson Delta V, SE Foxboro DCS, Honeywell Experion PKS, Honeywell PHD, Baytek LIMS, and SAP.

Core Competencies

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|----------------------------------|---------------------------|---------------------------|
| ✓ Technology Gap Analysis | ✓ Catalyst Management | ✓ Process Troubleshooting |
| ✓ Client Relationship Management | ✓ Performance Evaluations | ✓ Process Safety |

Professional Experience

Scientific Design LLC – Dubai, United Arab Emirates

Feb 2024 – Present

TECHNICAL SERVICES ENGINEER

Support the catalyst sales team by generating catalyst performance projections and preparing technical sections of Catalyst Sales Agreement. Review catalyst performance data and issue evaluation reports. Provide regular feedback to the engineering team for process optimization and/or design improvements. Oversee catalyst loading/unloading activities, including review and approval of reactor cleaning procedures. Inspect equipment to check for conformity with the licensor's specifications. Review pre-commissioning and commissioning procedures prepared by client / EPC contractor for new plant start-ups. Support plant personnel with operating & safety guidelines and provide training as appropriate. Conduct performance tests at clients' manufacturing locations. Assist clients in troubleshooting operating problems and optimizing plant performance. Review control and interlock systems for conformity with process and safety requirements.

Lotte Chemical Louisiana (LCLA) – Westlake, LA, USA

Jan 2022 – Feb 2024

LEAD PRODUCTION ENGINEER / PROCESS TECHNOLOGY MANAGER

Developed operating discipline and liaised with various plant functions to implement best chemical plant practices that enable the safe, efficient, compliant and cost-effective operation of a 1,000,000 MT per annum Ethylene Glycol manufacturing facility. Managed all aspects of the plant's process safety including LOPA, SRS Validation and implementation of SIS lifecycle management in accordance with ISA/IEC 61511. Served as the unit landlord in absence of the Plant Manager.

- ✓ **Exceeded projected Ethylene Oxide (EO) catalyst performance** through diligent day-to-day management, improving analytical data quality and establishing a working relationship with the catalyst vendor.
- ✓ **Served as the focal point for Townsend benchmarking study** by working with multiple functions to gather the data, analyzing the data and leading gap closures of the opportunities identified.
- ✓ **Implemented the Asset Utilization work process** to track production gaps and focus reliability efforts.

MEGlobal Canada ULC – Fort Saskatchewan, Alberta, Canada

April 2018 – Dec 2021

PRODUCTION ENGINEER

Coordinated activities with plant staff to optimize operation of a 450,000 MT per annum Ethylene Oxide to Ethylene Glycol manufacturing plant. Participated in and/or led root cause investigations of unplanned events. Reviewed and accurately categorized production accounting data and worked with other plant personnel to ensure rapid closure of gaps. Actively participated in unit EH&S programs and capital project reviews for assigned process units. Developed, managed and executed operating expense projects for assigned process units. Developed and maintained contacts onsite, within the company, with key vendors and technology licensors.

"Fuad is a high potential employee that has tremendous opportunity for growth and to become a leader in the LCLA plant and eventually the site." – Manager, Lotte Chemical

- ✓ **Achieved record-setting catalyst performance and production rates** by collaborating with the technology licensor in optimization and protection strategies, extending the life cycle from 3 to 5 years.
- ✓ **Participated in plant turnarounds** by preparing work scopes and packages, providing technical support, performing equipment inspections (confined space) and conducting pre-start up safety reviews.
- ✓ **Sized, procured and commissioned** a temporary flare stack system to maintain production rates, manufacturing efficiency and industrial hygiene standards during utilities plant outages.

Nexen Energy ULC – Calgary/Fort McMurray, Alberta, Canada

May 2013 – April 2018

PROCESS ENGINEER (Jan 2017 – April 2018)

Executed, as part of the Engineering and Construction team, projects for the Long Lake asset (72,000 BBL/day SAGD-Upgrader Oil Sands facility). Partnered with operations, marketing, lab services, production planning, research and development, and chemicals vendors in planning and executing projects and performance test runs. Developed simulations, conducted feasibility studies, planned projects, prepared and authenticated technical documents, facilitated risk reviews, evaluated proposals and participated in brainstorming activities.

- ✓ **Led a 7-part, 36-day diluent distribution optimization test run** to maximize processing rates without costly capital expenditure, ultimately demonstrating a \$4M per month cash flow opportunity.
- ✓ **Served on a special team dedicated to plant modifications** for handling up to 24 rail cars of condensate daily, leading to \$5M in additional monthly cash flow 6 months ahead of schedule.
- ✓ **Created an optimization tool for produced water heat exchanger operation**, which extended run times, projected fouling rates, and resulted in operating cost savings of \$1M annually.

OPERATIONS ENGINEER (Sep 2014 – Dec 2016)

Provided technical support to operations, major projects, technology development, production planning, HS&E and regulatory compliance groups as it pertains to the SAGD well pads and central processing facility. Collaborated with operations, troubleshooting and resolving day-to-day problems. Led root cause analysis investigations for assigned areas. Monitored KPIs and DCS alarm statistics, communicating corrective actions to meet targets and optimize production efficiency. Championed the Management of Change (MOC) process in supporting continuous improvement and debottlenecking initiatives.

- ✓ **Anticipated performance constraints** by developing process monitoring tools to track KPIs and project equipment performance.
- ✓ **Decreased DCS interlock bypasses by 90%** through risk assessment and corrective actions taking.
- ✓ **Replaced outsourced fugitive emissions program** with in-house program, saving \$540K annually.

ENGINEER-IN-TRAINING, FACILITIES (May 2013 – Sep 2014)

Evaluated hydrocracker unit operational constraints, analyzing data and employing process simulation tools. Identified bottlenecks impacting processing rates and screened vendor proposals. Completed equipment sizing and heat integration under guidance from senior staff, estimating capital and operating costs.

- ✓ **Developed cost estimation tool**, simplifying capital project estimating process and allowing for quick comparison of relative costs of different proposals.
- ✓ **Conducted technical study on hydrogen capacity**, finalizing the design basis, projecting operational requirements, detailing economic impacts, and ultimately earning senior leadership approval.

Irving Oil Refinery – Saint John, New Brunswick, Canada

(Sep – Dec 2010, May – Aug 2011, Jan – Aug 2012)

CHEMICAL ENGINEERING CO-OP STUDENT

Education & Affiliations

Bachelor of Engineering, Chemical Engineering – Dalhousie University, Halifax, NS, Canada (May 2013)

Association of Professional Engineers and Geoscientists of Alberta (APEGA) – Member No. 175472

Alberta Boilers Safety Association (ABSA) – File No. A-89686

“Fuad has a high degree of integrity and when commits to completing a task you know it will get accomplished on or before the deadline without follow up.” – Manager, Nexen