

OMAIR SHAFIQ HURZUK

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CAREER SUMMARY

Versatile, enterprising, dynamic, enthusiastic graduate Chemical Engineer with 1.5 years of rich experience in process design and energy audit especially in the oil and gas sector in the Middle East. Comprehensive engineering knowledge and skills on all aspects of process design, process equipment design, process integration and optimization with expertise in process simulation software and proven competencies enabling production of high quality cost-effective deliverables meeting client requirements. Skilled and experienced in conducting energy audits and delivering energy optimization objectives in process industries.



CAREER OBJECTIVE

Proactive result driven professional seeking a challenging position in a Process Engineering firm to utilize qualifications and one and a half years of process engineering experience and deliver outstanding results by ensuring proper flow of project activities across all stages of the project.

Areas of Interest: Process Design, Process Equipment Design, Process Economics, Process Optimization, Process Integration, Process Control, Process Plant Safety (particularly HAZOP analysis), Reactor Design, Project feasibility studies, Energy Optimization, Cost estimation studies, Material and Energy balance calculations.

SKILLS

- Chemical Engineering, Process Engineering, Process Design
- Engineering Design – Conceptual Design, FEED, Detailed Design
- Energy Audit, Energy Optimization, Pinch Technology, Hydraulic Studies
- Design Deliverables, Modeling, Simulations, Design Optimization
- Creation of Excel calculation sheets for solving complex process engineering problems
- Aspen HYSYS, Aspen EDR, Aspen Capital Cost Estimator, AFT Fathom, PIPESIM, MS Office – Proficient
- Aspen Plus, ProSimPlus Energy, PIPENET, ChemSep, AFT Arrow, AFT Impulse, AutoCAD, MATLAB – Working knowledge
- Communication, Coordination, Problem Solving, Decision Making, Planning, Execution

PROFESSIONAL EXPERIENCE

Process Design Engineer, February 2016 to date
Litwin PEL (Abu Dhabi, UAE)

Company Profile:

- Litwin PEL offers solutions comprising of engineering, procurement support, construction management and technical support services to the upstream and downstream oil & gas industry <http://www.litwinme.ae>

Projects:

- Produced water reinjection project at Bu Hasa oilfield, Client: ADCO, Abu Dhabi UAE
- Engineering for replacement of ESD valves at the Ruwais facility, Client: GASCO, Abu Dhabi UAE
- Flow assurance analysis for oil export facilities, Client: South Oil Company, Basra Iraq
- EPC for Installation of parallel propane/butane rundown line on Das Island, Client: ADGAS, Abu Dhabi UAE
- Installation of 4th distilled water supply pump for Borouge at the General Utilities Plant (GUP) Ruwais Refinery, Client: Takreer, Abu Dhabi UAE
- FEED/Detailed Engineering for provision of rerouting U-27 LP gas to U-13 and MP gas to U-113S at Habshan, Client: GASCO, Abu Dhabi UAE

Design Deliverables Prepared:

- Process Design Basis, Process Description, Process Flow Diagram (PFD), Piping & Instrumentation Diagram (P&ID), Steady State Hydraulic Report, Energy Saving Calculation Report, Thermal Safety Valve (TSV) Sizing Report, Line Designation Table, Tie-in Schedule, Tie-in Philosophy, Operating and Control Philosophy, Pressure Safety Valve (PSV) datasheet, Control Valve datasheet and Material Takeoff (MTO) for Valves.

Key Responsibilities:

- Perform hydraulic studies of process equipment and piping using 3 different software – PIPESIM, Aspen HYSYS and AFT Fathom – and produce all design reports and documents.
- Execute engineering calculations related to line hydraulics, pump hydraulics, compressor hydraulics, separator calculations, control valve calculations and vessel sizing.

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- Evaluate feasibility of proposed gas diversion schemes by independently conducting energy audits using Aspen HYSYS.
- Independently create Excel spreadsheets to evaluate critical parameters of pumps and heat exchangers as per project requirements.
- Participate in reviewing enquiries/RFPs from clients and developing technical proposals for preparing RFP responses/bids as per client requirements
- Attend HAZOP review meetings to identify process hazards and implement effective corrective action plan ensuring process safety.
- Generate Comment Resolution Sheets to incorporate client comments across deliverables at various review gates of the design process.
- Review various deliverables from the Piping and Instrumentation department assuring compliance with overall project design requirements.
- Mentored a junior internee during his 3-week internship with the company.

INTERNSHIPS

- **August 2015 (3 Weeks):** Process Design Engineer, Chemsys Process Engineering Pvt Ltd, Pune India – Independently modified PFDs for a facility to produce fatty alcohols from FAME using Aspen HYSYS in consultation with other process design engineers. Generated optimization problems to maximize efficiency and minimize capital and operating costs.
- **June 2014 to August 2014 (2 Months):** Quality Controller, Gulf and Safa Dairies Co, Abu Dhabi UAE – Performed laboratory testing of various dairy and juice products; resolved material balance problems related to day-to-day production; prepared data sheets for monthly production activities.

ACADEMIC PROJECTS

Design Project – BE Final Year, September 2015 – January 2016:

- Production of MTBE from Methanol and Isobutylene

Modules:

- Market Feasibility Studies – Conducted literature survey on demand-supply scenario for raw materials and products, defined ideal plant location and supply chain management and performed profitability analysis
- PFD Development – Modeled, simulated and optimized the flowsheet using Aspen HYSYS V8.6; generated and solved optimization problems to select the right equipment combination – pump vs. compressor, flash vessel vs. distillation column vs. extraction column vs. absorption column vs. stripping column; developed mass and energy balance specifications for individual streams and equipment in the flowsheet.
- Detailed Process Equipment Design – Developed detailed designs for reactor, distillation column and storage tank along with pump selection and line sizing.
- P&ID Development – Developed piping and instrumentation diagram (P&ID) for the distillation column and defined the corresponding control philosophy.
- Cost Estimation – Determined capital costs of reactor, distillation column, storage tank, pump and piping using Aspen Capital Cost Estimator V8.6
- HAZOP Analysis – Conducted HAZOP analysis of a storage tank.

Study Project, February 2015 – May 2015:

- Water and Wastewater Treatment using Membranes

EDUCATION

Birla Institute of Technology and Science (BITS) Pilani Dubai Campus, UAE

Bachelor of Engineering (Honors) – Chemical Engineering (2012 -2016; July 2016); Grade: First Class

Indian Islahi Islamic School, Abu Dhabi UAE

All India Senior School Certificate (Standard 12), Central Board of Secondary Education (CBSE) India, 80%

PROFESSIONAL DEVELOPMENT

TRAINING:

- **August 2016 – September 2016:** Process Equipment Design – online course (Indian Institute of Technology Bombay, Mumbai India)
- **June 2015 – July 2015:** Advanced Process Plant Design – Process Design, Process Equipment Design, Process Simulation using AspenONE – Classroom course (Chemsys Process Engineering Pvt Ltd, Pune, India)

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PERSONAL INFORMATION

Nationality: Indian ~ **Date of Birth:** 01January1111 ~ **Marital Status:** Single

Languages: Fluent in English, Hindi and Urdu, intermediate Arabic ~ **Driving License:** UAE Light vehicle, manual transmission

Hobbies and Interests: Table Tennis, Basketball, Swimming ~ **Extracurricular Record:** Won first place in school-level table tennis tournaments, Professional Basketball player, Prize winner in inter and intra school quiz competitions.

References: Available on request