**Profile Summary**

I have been working as a Shift Engineer in **Oil & Gas Development Company Limited**. I have passed my graduation in Chemical Engineering from the **Dawood University of Engineering and Technology**, with the **CGPA** of **3.2/4.0** in the year 2017.

I have advanced knowledge in Heat and Mass Transfer Operations, Thermodynamics, Chemical Process Technology and Petroleum Refinery Engineering. I have an excellent command of Microsoft Office 365, Microsoft Visio Professional, AutoCAD and Aspen Hysys, Unisim software. Furthermore, I have an excellent communication and interpersonal skills, with ability to liaise effectively and professionally with individuals at all levels. My greatest assets are my ability to work and adapt quickly to different engineering situations.

**Education & Professional Development**

**Bachelor of Science – Chemical Engineering** *2013-2017*

Dawood University of Engineering & Technology, Karachi

1st Division ­­­­­­­­­­**–** (3.2/4.0 CGPA)

**HSC (Pre- engineering)** *2010-2012*

Government Degree College Malir Cantt, Karachi

1st Division

**SSC (Science)** *2008-2010*

Modern Touch English Grammar School, Karachi

1st Division

**Professional Experience**

**Oil and Gas Development Company Limited (OGDCL)**, Nashpa Gas Processing and LPG Recovery Plant, District Karak, Pakistan

*Process Operations– Trainee Engineer October 2017 – Present*

OGDCL is the national oil & gas company of Pakistan and the flagship of country’s E&P sector. I have been looking after process engineering and operations at the state of art Oil & Gas Processing and LPG Recovery facility, since its pre-commissioning phase. Contributed as a key member of commissioning activities and black-startup team. The facility comprises of process equipments like Slug Catcher, Phase Separation and Condensate Stabilization, Gas Dehydration (Molecular Sieve) Unit, Turbo Expander based LPG Plant with depropanizer facility includes process equipments like sales gas compressors,overhead compressors, power engines, gas heaters, Refrigeration Package( HP & LP, double loop) , as well as allied facilities such as Reverse Osmosis Water Treatment, Hot Oil System, Instrument Air & inert gas system , and Produced Water Treatment Package.

* Actively participated in Commissioning of Nashpa LPG Recovery, Crude & Gas Processing Facilities(100MMSCFD Gas, 26000 bbls Crude & 320 Tonnes LPG Plant)
* Currently working as a shift engineer in different shifts to control plant operation
* Hands on experience at Honeywell DCS control system (based on SIL-3)
* Processing Gas Plant General Utilities, raw water treatment for reverse osmosis, electric power generation, hot oil system, instrument air compressor, Demineralization of water Plant based on Reverse Osmosis
* Make changes which can contribute for the improvement and better efficiency of the system, reduction of operational cost, energy conservation and reduction in emissions of greenhouse gases
* Co-ordinate with services departments (Electrical, Mechanical and Instrumentation) for rectification of jobs and modification jobs
* Ensure PTW system for carrying out routine maintenance activities.
* PTW audit from time to time
* Comply with safety rules and regulations. Familiar with the fire equipments in process area.
* Coordinate with Operators in regard to all activities that affect them.Monitor all parameters and enter periodic readings on log sheets. Summarize all activities/events that took place during different shifts in the log book.
* Effective communication with plant management regarding plant operation.
* Ensuring product quality and quantity
* Feed/Product periodic lab analysis.
* Inspect the area and auxiliaries during the shift to make sure that all equipment parameters are within limits, Report abnormalities to other shift engineers & Incharge Plant.
* Perform equipment change over according to preset schedules. Raise work requests or defect notes for faulty equipment.
* Coordinate with Shift operators for isolating and lining up the equipments and system before and after maintenance. Maintain a tidy work area and ensure clean up after maintenance work.
* Assist in the training and familiarization of new local operators & trainees
* Follow standard procedures.
* Use proper PPEs and implement prescribed risk controls
* Report deviations in Quality, Health and safety management system
* Actively worked in Annual turnaround & dismentling of gas dehydration unit & separation Batteries.
* Hand on experience on VLE-FLASH software to analyze the shrinkage of sales gas.
* Assist Incharge process for safe and economical Operations of the plants.
* Inventory management.
* Preparation of Monthly reports
* Arrangements for ATA activities
* Collecting and arranging important reports/ Data and Records keeping.
* Inspection and monitoring of plant status.
* Sale Gas Invoices
* Manage and control staff leaves
* “Dhok Hussain” plant Installation monitoring and Support to installation team.
* HSEQ monitoring plan execution.
* Update risk register

**Pakitex Boards & Chemicals Pvt. Ltd.** Korangi Industrial Area, Karachi, Pakistan

*Trainee Engineer Jan 2017 – October 2017*

Pakitex Boards & Chemicals is a private petrochemical & boards manufacturing industry, specializing in boards, urea formaldehyde, resins, and molding chemicals

* Actively worked with shift Incharges in different shifts to control process parameters
* Actively participated in routine changeover of rotary equipment
* Controlled the products parameters i.e. pressure, temperature, concentration & products quality by both manually & DCS
* Done lab tests to analyze product parameters
* Had a routine record of all process parameters, utilities, consumptions production & dispatch
* Ensure ptw system
* Coordinate with services departments (i.e electrical & mechanical).

**National Refinery Limited,** Korangi Industrial area, Karachi, Pakistan

*Assistant Group Leader February 2016 – October 2016*

Final Year Project *(52MT/D sulphur recovery from acid gas , And sulphur solidification plant design)*

I Have enhanced my following skills through this project

* Project management
* Coordinate & execute plant erection & commissioning activity
* Human resource management
* Safety management
* Time management

**Additional Exposure**

* Attended a workshop on **“Pre-Start-up Safety Review”** at Oil and Gas Development Company Ltd. for the commissioning of newly erected LPG/Dehydration/Crude Stabilization plant at Nashpa Field, District Karak, Pakistan
* Undergone in house training of **Working Safely** by OGDCL HSEQ Department
* Attended 3 days training seesion on **ISO 9001**, **14001** & **OHSAS 18001** at **OGDCL NASHPA OILFIELD**.
* Attended detailed workshop on **INTEGRATED MANAGEMENT SYSTEM** at **OGTI**.
* Have done FYP ( Final Year Project ) on “**52 MT/d Recovery of Sulphur & Its Solidification Plant Design”** with the collaboration of National Refinery Limited.
* Attended
* Seminar on **“Global Warming & Their Environment Concerns/Alternate Energy Resources”** organized by Energy & Environmental Department of Dawood University of Engineering & Technology, Karachi on 30 March 2013
* Attended workshop on **“Research Methodology”** at Dawood University of Engineering and Technology. (October 2016 to November 2016), **(5 weekly workshop)**
* Attended Seminar on **“Introduction To Process Safety”** at Dawood University of Engineering and Technology, Karachi on 28 November, 2016

**Skills**

* **Technical Software:** AspenHYSYS, UniSim
* **Soft Skills:** Professional Presentation skills, Adaptable Team Player, Problem Solving
* **Programming Languages:** Visual Basic
* **Common Software:** MS Office (Advanced in Excel), Adobe Photoshop, Corel Draw, 3D Studio Max
* **Language Skills:** English (Fluent), Urdu (Native), Punjabi (Conversant), Sindhi (Conversant), Pushto (Conversant)

**Professional Associations**

* **Relevant Professional** Pakistan Engineering Council (PEC), Registered Engineer CHEM/16082

**Associations:** American Institute of Chemical Engineers (AIChE) since August 2013

**references**

**Muhammad Ahmad Aftab Alam**

**(***Process Operations– Junior Engineer)* **(***Process Operations– Junior Engineer)*

*Oil and Gas Development Company Limited Oil and Gas Development Company Limited(OGDCL)*

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