### NATIONALITY : FILIPINO

DATE OF BIRTH **: 23 November 1980**

JOB CLASSIFICATION **: DESIGNER / ENGINEER**

PRIMARY DISCIPLINE **: PIPING**

**Career Summary**

**Ten (10) years** of professional experience in **Consulting, Design & Engineering Company** assigned to various design projects involving process (petrochemical, oil & gas) plant and cross-country piping. Primarily responsible in the piping team in the execution of the project activities related to piping design and layout, equipment layout, engineering calculations, material specifications, material take-off.

**Skill Set**

* AUTOCAD
* Plant Design Management System Software (PDMS)
* Plant Design System Software (PDS)
* Bentley Microstation
* PDS Pipe Support Modeler
* Bentley Autopipe
* Caesar 2 Stress Analysis Software
* Machine Shop

**Education:**

* Bachelor of Science in Mechanical Engineering (B.S.M.E.) – Cebu Institute of Technology, Natalio Bacalso Avenue, Cebu City, Philippines, March 2006
* Diploma in Mechanical Technology Major in Machine Shop – Center for Industrial Technology and Enterprise, Brgy. San Jose, Cebu City, Philippines, April 2000

## Professional Development:

* Registered Mechanical Engineer ID # 69850 by Philippine Professional Regulation Commission on April 2008.
* Registered Member of Philippine Society of Mechanical Engineers

**WORK EXPERIENCE**

**From:** November 2013 - June 2016

**Position:** Piping Designer

**Company:** Chiyoda- Almana Engineering LLC (CAEL), Seconded to Ras Laffan Olefins Company(RLOC/QCHEM)

**Location:** Al Gassar Tower, 12th Floor, West Bay, P.O. Box: 22961, Doha, Qatar/Ras Laffan Industrial City

RLOC is an Ethylene Cracking Plant operated by Q-Chem, producing 1.3 million MTA. I work in the Piping Department of the Plant in-house Technical Design Group by executing the raised MOC and TWR packages for a scheduled TURNAROUND and MAINTENANCE, by doing the following functions.

**Duties and responsibilities:**

Coordinate with Piping & Project Engineer for the project scope of work

 Perform site assessment prior to job scope execution

 Coordinate with the Maintenance and Operations personnel

 Coordinate with the Client and Design team for a piping 3d model review

 Response to Construction Technical Query

 Review and checked TWR Package

 Assist in Valve Technical Bid Evaluation

 Perform As-Built of Isometric drawings

 Attend and Complete LCP Training required as per Q-CHEM Safety Policy

 Adhere to the Q-CHEM Safety Policy

 Produce Piping Deliverables in adherence to CHEVRON Engineering Standard:

* Piping 3d Model
* Isometric Demolition Drawing
* Isometric Drawing
* General Arrangement Drawing
* BOQ
* Pipe Support Schedule

**Projects:**

 TWR-32-0187 Installation of 14” cold flare line from D-522 (C2 Splitter Reflux Drum)

 TWR-32-0195 Installation of 16” By-pass inlet line of E-202E (Primary Quench Water Coolers)

 Rerouting of 12” inlet line of E-201 (Ethane Feed Pre-heater)

TWR-32-0157 Installation of bypass line with EIV for E-510 & 511 (Ethane Vaporizers)

 Installation of additional Shut-off Valve for the two discharge lines of

 TK-1140 (Ethane Storage Sphere Tank)

TWR-31-0069 Additional LP Condensate Header line and Tie-in branches

MOC-RL-PR-2014-00246 Nitrogen Dry-Out Piping for the RLOC Plant Cold Section

Perform Maintenance and MOC related design packages

D-501A Additional Ethylene Guard Drier

Replacement of Light Oil drain line network

**Projects:**

 MOC-RL-PR-2014-00352 ¾” Valve addition, pipe class upgrade, installation of condensate trap

Line at Dilution Steam for 72” cracked gas line to quench tower

 Nitrogen Decontamination Header Lines for Turnaround

 C-301 Cracked Gas Compressor first to fifth stage piping

 E-301 to 306 Shell and Tube Heat Exchangers (Discharge Coolers)

 E-509 C2 Splitter Condenser & T-301 Caustic Wash Tower

 E-708 Shell and Tube Exchanger (Reboiler) and T-701 Caustic wash Column

 E-401 Demethanizer Reboiler and T-401 Demethanizer Column

 E-804, 805 & 806 Ethylene Refrigerant Condenser and E -511 Ethane Vaporizer

 And E-1101 Ethane Rundown Condenser

 MOC-RL-PR-2014-00076 Line Sample Connections for D-621 (C3/C4 Cut Flash Drum) & T-201

 (Quench Water Tower)

**From:** July 2011 - November 2013

**Position:** Piping Design Engineer

**Company:** KBR – AMCDE (Kellogg Brown & Root - Abdulhadi & Al-Moaibed Consulting & Design Engr.)

**Location:** Al-Khobar, Kingdom of Saudi Arabia

KBR-AMCDE Consortium, a consulting company in the gulf that provides engineering services to Saudi Aramco in the field of oil and gas business. I do my part in piping department by handling the following tasks

**Duties and responsibilities:**

Overall plot plan, and Equipment Layout Planning

Prepare preliminary design of structures and introduce studies, sketches, drawings &

Calculations related to the Piping design of FEED works.

Prepare piping design, layout and routing of piping system according to Applicable Saudi

Aramco and Industry Standards.

Prepare layout, isometrics and detail drawings.

Interface (Pipe tie-in) planning between plant battery limits.

Prepare piping material specifications (i.e. pipes, pipe fittings, valves and specialty).

Perform project site visits, interface with proponent/maintenance people and gather field

Information related to the project

Prepare piping plan and profile for flow-lines, trunk-lines & test-lines from the survey

Calculations of pipe wall thickness and pressures for hydrostatic test packages

Preparation of Construction scope of work and P & ID updates.

Preparation of SIS for the hydrostatic test, Hydrostatic test diagram & checking

Prepare Updates of Piping planning and Isometric drawing.

Preparation of demolition drawing in piping plan and isometric

Prepare Piping Tie-In Schedule

Coordinate between disciplines for update of the concerned area

Response to Construction Contactor technical queries

**Projects:**

Font End Engineering Design (FEED) - Jazan Marine Terminal and Refinery

High Integrity Pressure Protection System (HIPPS) Installation of Aindar 146, 261, 346, 349, 366

 & 533 WELL HEADS

 Reinforced Thermosetting Resin (RTR) Pipes Replacement for existing carbon steel of Hawiyah

 & Utmaniyah Flow Lines, Trunk Lines & Test Lines

 Loading Berth 71 & 72 Upgrade and Installation of new YASREF Diesel, Gasoline and Benzene

 Product Metering Station and loading arms

**From:** November 2006 – June 2011

**Position:** Piping Designer

**Company:** DASH Engineering Philippines Inc**.**

**Location:** 8th Floor, I1 Bldg. Asia Town, IT Park, Lahug, Cebu City, Philippines

**Duties and responsibilities:**

 Calculation of Pipe rack width and loading data

Pipe routing base on P&ID Process Requirements and Client Engineering standard

Pipe Structural modeling base on Loading Data and Plot Plan

Equipment Modeling based on Vendor Drawing and Equipment Layout

Extraction of piping isometric drawing in PDMS to AutoCAd

Checking of piping isometric drawings issued for construction.

Materials take-off.

Piping line by line checking using Jet stream Navisworks.

3D modification using AUTOCAD

Checking of equipment layout and vendor drawing

Steam tracing of extracted Isometric drawing.

Preparation of Piping Arrangement Drawing by AutoCAD & Microstation

Prepare special support and line rerouting as per pipe flexibility.

Pipe Clash checking

support modeling base on Piping Standard and Stress Analysis

**Projects:**

 Malaysia Bio-Ethanol Plant 2 (MB2) – (December 2010 – June 2011)

 SBR Plant -Singapore (November – December 2010) ITB

MX Plant - Japan (September – November 2010) ITB

Chemical EVA Plant (June – August 2010) ITB

 DOW USA Chlorine – Alkali Plant (April – May 2010) Estimation works

 NSRP PP Project (March – April 2010) Estimation works

 4PP Prime Polymer Japan - (October – December 2009) ITB

 Singapore Parallel Train Olefins Furnaces Project (August 2007 – June 2009)

 Ring 3 Japan - (June 2007)

 ILAM (March 2007 – May 2007)

 3EPT (January 2007 – February 2007)

**OTHER INFORMATION**

**Languages known:**

English

Tagalog

**Training/Seminars**: (QCHEM In-House)LIFE CRITICAL PROCEDURES as per OSHA

Confine Space Entry (CSE)

 Lock-out, Tag-out & Try (LT&T)

 Authorized Gas Tester (AGT)

 Electrical Work Safety (EWS)

 Opening of Process Equipment or Piping (OPEP)

 Permit to Work (PTW)

 Work at Height

 Safety Alarm & Safety Bypass

 Job Safety Analysis (JSA)

 Crane Lift