

CURRICULUM VITAE

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1.0 Overall Summary

1.1 Summary of Overall Qualifications

- **Management:** Good experiences in project such as pipeline & new plant installation (Project management, project costing, FEED & EPCC), various contacts with contractors from different sectors include mechanical, DOSH PMT application etc.
- **Technical:** Exposure to pipeline design, instruments and valve sizing, involve in ITB write up for various equipment purchase, good analysis & troubleshooting skills on plant operation, good writing & communication and computer proficient.

1.2 Working experience

- Project manager for pipeline project, include front end engineering design (FEED) and engineering, procurement, construction & commissioning (EPCC) scope
- Project engineer for various project, include plant modification, control system upgrade & costing estimation on new system supply
- Construction & commissioning engineer for various new plants installation projects
- Remote Operating Centre (ROC) engineer of Nitrogen Generators units (NGU) who responsible to integrate existing NGU roll into ROC and ensure safe, efficient & reliable operations

1.3 Qualification

Bachelor Degree in Chemical Engineering, University Malaysia Sabah (UMS) – **CGPA: 3.27/4.00**

1.4 Award Winning

One of team member to win several awards in company country yearly Excellence Award from 2008 to 2011

2.0 Employment

2.1 Linde Malaysia Sdn. Bhd. (June 2007 until Dec 2012)

Project Engineer, Engineering Department

Key Duties

- To actively involve in project costing, ITB (Invitation to Bid) document preparation, technical evaluation on tender proposal, project execution and schedule planning.
- To manage, supervise and co-ordinate with external contractors and suppliers to achieve project goal within the budgeted CAPEX.
- To provide technical review of Piping & Instrument Diagram (P&ID), Process Flow Diagram (PFD), Control Logics Diagram and Electrical & Instrument Hook Up Diagram for new plant setup.
- To lead on installation of pipeline to new customer for gas supply
- To setup installation standard for invoice metering station appropriate to custody transfer.
- To provide technical support and solution to all Linde plants in order to overcome process control and instrumentation problems or issues.
- To provide support on Engineering Management Of Change (EMOC)

Major Project Involved

Project Manager of Installation of Underground Pipeline & Flow Metering Station for

- 1. MFS @ Malacca, 2007**
- 2. Biofuel @ Gebeng, 2008**
- 3. KESM @ Petaling Jaya, 2010**
- 4. B.Braun @ Penang, 2011**

- Identify the details scope of work (SOW) include the engineering, procurement, construction & commissioning (EPCC)
- Work out the costing & budgeting for the pipeline job
- Prepare Request For Quotation (RFQ) and collaborate with Procurement Department in order to finalize the technical & commercial evaluation and clarification
- Prepare the Technical Bid Evaluation Report (Technical Scope) and Comparison of Bids (CoB, Commercial Scope)
- Perform pressure drop analysis, thickness calculation, piping sizing determination, HAZOP study and carry out job safety analysis (JSA)
- Design the most appropriate instruments in terms of customer requirement for the metering station include Vortex meter, Filter, pressure regulator or pressure control valve and safety valve
- Prepare the bill of material (BOM) for the instrumentation and piping procurement
- On site execution supervision and ensure the job is carried with compliance to company safety policy and local authorities regulation.
- Prepare full documentation (Standard Operating Procedure & Maintenance Procedure) for handover to Operation Team and customer

Commissioning Engineer of Nitrogen Generator, TCN-8000 @ Penang (2008)

- Lead for "Pre-Purification Unit" (PPU, for compressed air) commissioning
 - Ensure the adsorbents loading in correct quantity and without contaminated
 - Ensure the PPU program sequence is checked with all operating switching valves & heater working according to the program
 - Ensure the high temperature process to adsorbents done according to the required temperature and duration to activate the adsorbents
 - Provide training to Operations Team with Standard Operating Procedure
- Lead for "Cooling Water System" commissioning
 - Carry functional check to cooling water fan & pumps
 - Ensure the cooling water fan & pumps are tested run before putting online
 - Carry the chemical treatment for cooling water – physical & chemical flushing and chemical passivation
 - Provide training to Operation Team with Standard Operating Procedure
- Assist on IHI air compressor commissioning – Test run, control logics check, surge test and surge control duplication in S7 PLC
- Assist on control system and instrumentation commissioning – Instruments loop check, alarm & trip logics diagram
- Perform Permit to Work (PTW) system to ensure works executed at site have zero Loss Time Injury (LTI)

Construction & Commissioning Engineer of KIG Spectra Ultra High Purity Nitrogen Generator Plant, N5000i @ Kulim (2009)

- Prepare Invitation To Bid (ITB) for equipments purchase and finalize the technical evaluation
- Lead for on site mechanical work
 - Monitoring for overall plant pipeline & equipments installation, piping insulation
 - Lead to identify & arrange pressure leak & pneumatic test for piping
 - Lead in lifting & installation of heavy equipment - liquid storage tank & cold box
- Involved in Piping & Instrumentation Diagram (P&ID) revised drawing after modification (Using Autocad)
- Involved in local authorities application – DOE, DOSH & custom clearance
- Lead for analyzers (Trace O₂, H₂O, CO₂) panel sampling system design, installation & commissioning
- Assist on instrumentation and control system commissioning, cable laying, loop check, FAT (Factory Acceptance Test).
- Assist on Ingersoll Rand (IR) air compressor commissioning – Test run, control logics check, surge test and surge control duplication in S7 PLC

Lead on Linde Malaysia Invoice GN₂ Metering Station Standardization (2010)

- Assigned to work on standardizing the design of a gas nitrogen metering station – Instruments, layout
- Involved in flow meter, pressure transmitter, RTD, pressure regulator, filter, safety valve selection guidelines development based on cost and instruments reliability
- Involved in product gas flow billing SCADAPACK program development
- Work out a calculation sheet for pressure drop calculation to determine the appropriate size of metering station

Construction & Commissioning Engineer of Kerteh 2 CO2 200T Plant (2011)

- Lead for on site mechanical work
 - Monitoring for overall plant pipeline & equipments installation, piping insulation
 - Lead to identify & arrange pressure leak & pneumatic test for piping
 - Lead in lifting & installation of heavy equipment - liquid storage tank, distillation column & cooling tower
 - Lead in liquid ammonia (NH3) charging into piping
- Assigned as process leader in commissioning team
 - To counter check the control logic according to required process
 - To provide process training to local operation team

Construction & Commissioning Engineer of Nitrogen Generator Plant @ Muar (2012)

- Lead for on site mechanical work
 - Monitoring for overall plant pipeline & equipments installation, piping insulation
 - Lead to identify & arrange pressure leak & pneumatic test for piping
 - Lead in lifting & installation of heavy equipment - liquid storage tank, cold box & cooling tower
- Lead for pre-commissioning & commissioning activities
 - Ensure the collaboration between Plant Supplier on site engineer and local team commissioning engineer
 - Arrange and ensure the commissioning activities to be carried on time and successfully supply product GN2 to customer within planned schedule
 - Involve in plant performance test to ensure the plant is within the guarantee specification – production flow, pressure, purity and power consumption
- Lead for Project Site Safety Initiative
 - Prepare SHEQ program for construction site
 - Prepare emergency response plan (ERP) and implement it on site
 - Ensure daily tool box meeting & regular safety meeting to be carried
 - Ensure project construction safety record without incidents & lost time injury (LTI)

Remote Operating Centre (ROC) Engineer for Nitrogen Generator Plants, Tonnage Operation Department

Key Duties

- Ensure safe, efficient and reliable operations of the ROC Nitrogen Generators unit (NGU)
- Ensure that the quality of products and services from ex-gate of production sites conform to customers' requirements and company's standards and specification
- Ensure the defined KPI for ROC plants is meet
- Provide training & development to ROC operators
- To set up communication protocol with local site management on operation/maintenance issues and opportunity for improvement
- Lead integration of Nitrogen Generators plants into ROC
 - Batu Berendam NGU @ Malacca

- PSA plant at CSC Steel @ Malacca
- N7-5000 plant @ Kerteh
- TCN8000 & HPN7500 plants @ Penang
- Spectra N5000i plant @ Kulim
- N7-5000 & Minigan 1800 plants @ Muar
- Assist the initial set up of the ROC in Hicom, Shah Alam
- Develop operation procedures

2.2 Misi Setia Oil & Gas Sdn Bhd (Jan 2013 until current)

Senior Project Engineer, Pipeline Division

Key Duties

- To actively involve in project costing, ITB (Invitation to Bid) document preparation, technical evaluation on tender proposal, project execution and schedule planning.
- To manage, supervise and co-ordinate with external contractors and suppliers to achieve project goal within the budget.

Major Project Involved

Construction Manager of Installation of Kulim Industrial Gases (KIG) Underground Pipeline To Panasonic Solar Malaysia In Kulim

- Collaborate with Procurement Department in order to finalize the technical & commercial evaluation and clarification
- Prepare the Technical Bid Evaluation Report (Technical Scope) and Comparison of Bids (CoB, Commercial Scope)
- On site execution supervision and ensure the job is carried with compliance to company safety policy and local authorities regulation
- Ensure the project is executed within timeline and budget
- Prepare full documentation (As built drawing, construction & commissioning record sheet etc) for handover to customer

Project & Construction Manager of EPCC of NGDS To Puchong – Serdang FL Stage 1/12 (Looping) for Gas Malaysia Berhad (GMB) in Puchong, Selangor

- Collaborate with Procurement Department in order to finalize the technical & commercial evaluation and clarification
- Prepare the Technical Bid Evaluation Report (Technical Scope) and Comparison of Bids (CoB, Commercial Scope)
- On site execution supervision and ensure the job is carried with compliance to company safety policy and local authorities regulation
- Ensure the project is executed within timeline and budget
- Prepare full documentation (As built drawing, construction & commissioning record sheet etc) for handover to customer

Project & Construction Manager of EPCC of NGDS To Chuping FL Stage 1/12 for Gas Malaysia Berhad (GMB) in Chuping, Perlis

- Collaborate with Procurement Department in order to finalize the technical & commercial evaluation and clarification
- Prepare the Technical Bid Evaluation Report (Technical Scope) and Comparison of Bids (CoB, Commercial Scope)
- On site execution supervision and ensure the job is carried with compliance to company safety policy and local authorities regulation
- Ensure the project is executed within timeline and budget
- Prepare full documentation (As built drawing, construction & commissioning record sheet etc) for handover to customer

3.0 EDUCATION & QUALIFICATIONS

<u>Year</u>	<u>Institute</u>	<u>Qualification</u>
2003 – 2007	University Malaysia Sabah (UMS)	Bachelor Degree in Chemical Engineering CGPA: 3.27/4.00
2001-2002	S.M.J.K Chung Hwa Confucius	STPM (2B, 1C, 1E)
1995-2000	S.M.J.K Chung Hwa Confucius	SPM (4 A1, 2 A2, 2 B3, 1 B4, 1 C5) PMR (7A, 1B)

SKILLS

- Microsoft Word, Excel, Power Pt, Project
- AutoCAD

4.0 AWARDS

MOX-Linde 2008 Excellence Award – Linde Business Award “Operations”
(Installation & Commissioning of a Nitrogen Generator in Penang)

MOX-Linde 2009 Excellence Award – Linde Values Award “Empowering People”
(Installation & Commissioning of a Nitrogen Generator in Kulim)

MOX-Linde 2010 Excellence Award – Linde Business Award “Process Excellence”
(ROC of Nitrogen Generators in MOX-Linde)

MOX-Linde 2011 Excellence Award – Linde Business Award “People Excellence”
(Pipeline Installation to Customer – MetTube)

CURRENT SALARY	RM 6200
NOTICE PERIOD	2 months
CONTRACT STATUS	3 years contract with MSOG since 2 Jan 2013 until 1 Jan 2016 (MSOG has paid my previous employer – Linde Malaysia Sdn Bhd RM 10,018 for earlier joining)

REFEREES

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