



Abd Hamid Saad

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Years of experience : **+ 24 years**
Skill : **CIDB Green Card - 17/02/2018)**
: **OSGP Card - 06/06/2021**
Availability :

Personal Particulars & Preferences

Last Position : Lead Piping Designer
Specialization : Engineering - Oil/Gas, Petrochemical,
Oleo chemical, General Industry
Highest Education : Professional Certificate in Engineering
(Mechanical)
Date of Birth : 17 July 1969
Nationality : Malaysia
Gender : Male
IC No. : 690717-02-5039
Possess Own Transport : Yes
Willing to travel : Yes
Marital status : Married

Educational Background

Certificate of Engineering (Mechanical)

Major : Mechanical Drafting (Piping Design)
Institute/University : Mara Skill Institute - Advance, Malaysia
Grade : Pass/Non-gradable
Graduation : Date 1992

Certificate Gas Technologies

Major : Gas Fitter Class II
Institute/University : University Technology Malaysia, Malaysia
Graduation : Date 2006

Discription :

- Fuel Gas Properties
- Fuel gas Piping System
- Liquid Petroleum Gas Storage System 1
- Fuel Gas Pipe Sizing 1
- Gas Meter and Gas Regulator Selection 1
- Inspection, testing, Purging and Commissioning
- Combustion Process 1
- Gas Burner System 1
- Venting System 1
- Burner Control System 1
- Introduction to Welding Process
- Service and Maintenance (Fuel Gas Storage & Piping System)
- Introduction to Project Management
- Code and Standards for Natural Gas and Liquid Petroleum Gas
- Gas Supply Act 1993 and Gas Regulation 1997

Working Summery

- I. Petronas GTS / PD&T Aug 2016 – Dec 2018
Lead / Senior Piping Designer

Front End Engineering Design (FEED), Study and perform plot planning (equipment layout / location) by general plot plant, P&ID, Piping design basic and Petronas Technical Specification (PTS).

Melaka Refinery Diesel Euro 5 Project Aug 2016 – Sep 2017
Melaka Refinery Gasoline Euro 5 Project Oct 2017 – Dec 2018

II. Gunung Besaout Eng. (GBE) Jan 2016 – July 2016
Piping Designer / Drafting / Draftsman

3D Plant Model (Piping), Isometric Single Line (Piping), Mechanical Design Drawing, Construction Drawing, M&E Drawing, Conversion to CAD Drawing, As Built Drawing, Site measuring, Front End Engineering Design (FEED).

III. Technip Geoproduction (M) Sdn Bhd July 2013 – Dec 2015
Senior Piping Designer

- Refinery and Petrochemical Integrated, Development Project (RAPID)
- SK316 Development Project – Location NC3CP-A & E11RC
- Ichthys Field Development – FPSO Topside Detail

IV. Desmet Ballestra (M) Sdn. Bhd. July 1996 - Jun 2013
Design / Drafting Supervisor

V. Taiko Management Sdn. Bhd. Jan 1995 – June 1996
Project Executive / Draftsman

- See Sen Chemical Bhd
- See Sen Alkali Sdn. Bhd

VI. Sime Sembawang Eng. Sdn. Bhd. Feb 1992 - Dec 1994
Piping Draftsman

- BAK-B1
- Guntong D, Jernih A
- M3PQA

Summery Scope Of Works

Study and develop piping facility drawings for Design and Fabrication. Coordinates progress follow up of mechanical installation work. Piping Layouts and Equipment Proprietary Equipment drawing and document development.

Performs inspections of all piping work in progress on a continuing basis, witnesses test and completes final P&ID; check prior to turnover. Develops punch lists and monitors completion of punch items.

Assists in securing the necessary client acceptance documentation for record. Prepares and has full responsibility for managing piping QC records to ensure that they are fully completed and properly submitted in a timely manner to Document Control.

Employment History

1. Petronas Global Technical Service (GTS) *Oct. 2017 – Dec 2018*

Position Title (Level) : Lead / Senior Piping Designer
Project : Melaka Refinery Gasoline Euro 5 Project.
Scope : Front End Engineering Design (FEED)

- Naphtha Hydrotreater Unit (NHT)
- Isomerization Processes Unit (ISOM)

SP3D Plant Model (Piping), Isometric Single Line (Piping), Site measuring and study, Front End Engineering Design (FEED)

- Study and perform plot planning (equipment layout / location) by general plot plant, P&ID, Piping design basic and Petronas Technical Specification (PTS).
- Perform piping routing plan and piping arrangement with considering those operability, maintainability and flexibility.
- Interface with others discipline for design development and fixing piping arrangement and design information.
- Prepared design information for others discipline design such as Civil & Structure, Equipment / Tankage and etc.
- Review and comment design deliverable from others Disciplines such as P&ID, Pump outlet, Equipment orientation, cable routing, etc to incorporate into piping design.

- Benzene Saturated Unit (BSU)

2. Petronas Global Technical Service (GTS) *Sept. 2016 – Sept. 2017*

Position Title (Level) : Lead Piping Designer
Project : Melaka Refinery Diesel Euro 5 Project.
Scope : Front End Engineering Design (FEED)

- Diesel Hydrotreater Unit (DHT)
- Hydrogen Production Unit (HPU)
- Amine Regeneration Unit (ARU)

SP3D Plant Model (Piping), Isometric Single Line (Piping), Site measuring and study, Front End Engineering Design (FEED)

- Study and perform plot planning (equipment layout / location) by general plot plant, P&ID, Piping design basic and Petronas Technical Specification (PTS).
- Perform piping routing plan and piping arrangement with considering those operability, maintainability and flexibility.
- Interface with others discipline for design development and fixing piping arrangement and design information.
- Prepared design information for others discipline design such as Civil & Structure, Equipment / Tankage and etc.
- Review and comment design deliverable from others Disciplines such as P&ID, Pump outlet, Equipment orientation, cable routing, etc to incorporate into piping design.

Scope : Tie-Ins PSR1 Turn Around (40 Tie Ins point)
Tie-Ins PSR2 Turn Around (+-320 Tie Ins point)

- Study and perform plot planning for new pump, shell & tube.
- Study and perform for Tie-Ins point location and future route connected to tie ins location.
- Study and perform new route piping between new item and tie-ins point.
- Study and perform new route from tie-ins for Euro 5 project (Interconnection)

3. Gunung Besout Engineering (GBE)

Jan 2016 – Jun 2016

Position Title (Level) : Freelance Design Draftsman

Project : Cargill Port Klang (Lump sum project)

Duration : 2 Month (April - Mei 2016)

Scope : Conversion hard copy to AutoCAD, Site measuring and update Drawing.

- P&ID - Prepared AutoCAD, trace line at side, update line as site installation and modification.
- PFD - Prepared new drawing for Process Flow Diagram.
- Vessel - Conversion Vessel General Arrangement (GA) to AutoCAD, Trace modification and update drawing. Site measuring and prepared new GA drawing.
- Layout - Site measuring and update layout / plot plant.
- Hydrogen - Site measuring and prepared layout / plot plant for trailer parking and prepared new Process Flow Diagram for Hydrogen Trailer.

Project : Xiamen University Malaysia, Kota Warisan, Sepang

Client : Wanli Byrock Sdn Bhd

Scope : Prepared shop drawing.

- Stone arrangement, Column, Beam, Arch, Round Column, Column Base.
- Prepared bill of material, cutting list for stone detail.
- Prepared structure / support arrangement for stone.
- Check Architect drawing to suite with stone arrangement and design.

4. Technip Geoproduction (M) Sdn Bhd.

July 2013 – Dec 2015

Position Title (Level) : Piping Designer
Specialization : Engineering - Oil/Gas
Role : Supervisor/Team Lead/Design
Industry : Oil / Gas / Petroleum
Salary : RM85/hour
Reasons for leaving : Complete / End Contract

Project : Refinery and Petrochemical Integrated
Development Project (RAPID) – Feb 2015 to Dec 2015
Pengerang, Johor.

Client : Petronas

Work Description (Checker / Design)

- Study and perform plot planning (equipment layout / location) by general plot plant, P&ID and piping design basic.
- Perform piping routing plan and piping arrangement with considering those operability, maintainability and flexibility.
- Interface with others discipline for design development and fixing piping arrangement and design information.
- Prepared design information for others discipline design such as Civil & Structure, Equipment / Tankage and etc.
- Review and comment design deliverable from others Disciplines such as P&ID, Pump outlet, Equipment orientation, cable routing, etc to incorporate into piping design.
- Review of vendor drawing to make sure all the information is transferred to the model.
- Review SP3D model to suit with latest Equipment Layout and Plot Plan.
- Review and check SP3D model pipe route to ensure all part of pipeline system is developed according to the requirements and follow latest PID.
- Check part / material not in SP3D data and requires to SP3D admin.
- Update equipment and Piping route for SP3D.
- Prepared General Arrangement Piping, Create from SP3D
- Prepared Construction Works Package (CWP) drawing.

Project : SK316 Development Project – *May 2014 to Feb 2015*
Location NC3CP-A & E11RC.
Client : Petronas Carigali Sdn Bhd

Work Description (Checker / Design)

- Review of the model developed for the pipe system to ensure all equipment, pipe branch and instruments is in order according to the PID.
- Review of the pipeline system is developed according to the requirements.
- Making new routes proposed pipe system during the examination of the developed model.
- Review of vendor drawing to make sure all the information is transferred to the model.
- Checked CP1 and CP2 isometric drawing to ensure pipelines do not clashed with others.
- Ensure that the latest AFC drawing is same as the PDMS model and stress isometric.
- Checked drawings to ensure the installation of the part piping and instrument according to the standards.
- Ensure support is installed according to the pipe by isometric.
- Layout study and prepared PDMS 3D Model for SK316 change order bottlenecks study. 2 bay Air Fin Cooler Incoming Design Tempt. 175°C.

Project : Ichthys Field Development – *July 2013 to April 2014*
FPSO Topside Detail
Client : Daewoo Shipbuilding & Marine Co Ltd

Work Description (Pipe Support)

- Marking, Tagging and control pipe support special (SK) number for stress iso if support load exceeding loading >30KN vertical, >10KN horizontal and height >2.3 Meter.
- Using Smart Plant Review (SPR) and Navis work to review supports from model to ensure no clashes and updating the support drawing referring to the latest stress iso revision.
- Distributing all marked stress iso to area leads for confirmation of support SK position and naming (tagging).

- Preparing guide sketches, confirming dimension and location with area leads
- Preparing SP Drawing for loads which are exceeding allowable STC (Support Standard) requirements.
- Commenting on structural Inter discipline checking (IDC) and coordinating with respective designers for further clarification.
- Performing trunnion calculation and choosing the right trunnion size to ensure pipe sustains under high load.

5. Desmet Ballestra (Malaysia) Sdn Bhd

July 1996 - Jun 2013

Position Title (Level) : Drafting Supervisor
 Specialization : Engineering - Oil/Gas
 Role : Supervisor/Team Lead
 Industry : Oil / Gas / Petroleum
 Salary : RM9800/month

Work Description :

Piping Design Draftsman. (1996-2000)

Project / Client :

BAKRI (Olein)	PT Bakrie & Brothers, Indonesia
POPHYD (Hydrogenated)	Felda Holdings Sdn Bhd, Malaysia
WANXI (Neutrilization)	Soutwest Technical Import and Exp Corp, China
DAHIN (Fatty Acid)	Dahin Co. Ltd, Taiwan
RUMJAI (Solvent Extra.)	Thai Rumjai Vegetable Oil Co. Ltd, Thailand
APOL (Palm Mill)	Promotora De Palma Del Soconussco S.A. De C.V., Mexico

- Provides technical assistance to the Subcontractor, Field Engineers and Client Project Engineer.
- Reviews design and AFC drawings, related vendor drawings and installation instructions and studies interference problems to ensure support, nozzle orientation located base on final General Layout / Equipment Layout. Review equipment layout to ensure all equipment located as per process design.
- Attend project meeting with client and vendor for equipment layout, pipe route, equipment handling and installation / erection.

- Design new complete package piping route inside process plant.
- Prepared preliminary package material Take Off (MTO) base on proposal pipe route. Final MTO prepared after final pipe route completed.
- Prepared isometric drawing complete with material take off (MTO).
- Review Piping Material Class Specification. Discusses with HQ Design Office (Desmet Belgium) to prepared and built spec for project.
- Assists the Procurement Engineer in the inspection and receipt and ship of piping material.
- Assists the Commissioning Engineer and Client Project Engineer in the Pre-Commissioning. Assists in checking all installation piping, Instrument and controller is fixed at correct location with correct position as advice by manufacture.

Project Executive / Vessel Fabrication (2000-2001)

Project / Client:

NANHAI (Deodorizing)	Southseas Oils and Fats Industrial (Chiwan) Ltd,
ACHEM (Olec Acid)	Acidhem International Sdn Bhd, Malaysia
LKKS (Bleaching Oil)	Limketkai Manufacturing Corporation, Philippine

- Assists the Procurement Engineer in the inspection receipt and shipment of material.
- Review / monitor vessel fabrication work. Developing Delivery Schedule along with Design / Drawing Office, Project Manager, Shipment Coordinator and Contractor.
- Perform complete layout inspection by measuring dimensions, such as length, height and distance between reference point using precision instrument such as micrometers, calipers, and dial indicator to ensure product meets specifications.
- Visually compares work pieces against one another to detect manufacture variation in processes.
- Assists and / or trains operators / fabricator on part visual acceptability and measurement and process procedures as required.
- Fabrication report, Quality and problem to Project Manager and follow up to ensure that correction action has/will take place.
- Maintains record of inspection and prepared list of defects, interacts with others department to ensure compliance with specification and facilitates the acceptance of parts.

Project Erection/Installation (2001-2003)

Project /Client:

PAS (Solvent Extra.)	P.A.S. Export & Silo Co. Ltd, Thailand
BIDUG (Deodorizer)	Bidco Uganda Ltd, Uganda
CAILAN (Deodorizer)	Cai Lan Oil & Fats Industries Co. Ltd, Vietnam

- Assists construction superintendents in planning and assembling of work packages using the proper construction methods and procedures. Coordinates and resolves engineering or construction problems with superintendents as required ensuring the work packages are clearly understandable.
- Monitors installation of materials and equipment to assure conformance with drawings, specifications and quality standards.
- Verifies installed quantities and reports installed quantities to Project Controls.
- Reviews the construction progress of project controls documents.
- Performs inspections of all piping work in progress on a continuing basis, witness's tests and completes final P&ID; check prior to turnover. Develops punch lists and monitors completion of punch items. Assists in securing the necessary client acceptance documentation for record. Prepares and has full responsibility for managing piping QC records to ensure that they are fully completed and properly submitted in a timely manner to Document Control.
- Assists the Procurement Engineer in the inspection and receipt of material and in the setting up of jobsite controls for storage and protection of piping materials.
- Assists the Subcontract Administrator and Client Project Engineer in the quality control and final check out of Subcontractor piping work. Assists in checking invoices of Subcontractors or vendors for piping related items or materials. Assists in checking invoices of Subcontractors or vendors for piping related items or materials. Assists the Subcontract Administrator and Client Project Engineer in the quality control and final check out of Subcontractor piping related work.

- Coordinates with the design office to establish permanent materials to be ordered by the field, establishes cut off dates for Jobsite material requisitioning and issues field piping material requisitions as required. Prepares or directs preparation of field material purchase requisitions, including estimating the quantities and material takeoffs of the field purchases.
- Assists the Subcontract Administrator and Client Project Engineer in the Pre-Commissioning. Assists in checking all installation piping, Instrument and controller is fixed at correct location with correct position as advice by manufacture. Assists Subcontractor and Client Project Engineer to do pipe flushing, air test, hydro test and Commissioning Engineer to start-up of plant.

Design And Drawing Office Supervisor (2003-2013)

Project / Client :

ATLANTIC	Atlantic Pacific Foods, Australia
SHOWA	Mitsubishi Kakoki Kaisha, Ltd, Japan
ECOSOL (Biodiesel)	ECO Solutions Co. Ltd, Malaysia
DUMAI (Biodiesel)	Biotech International Pty Ltd, Malaysia
CARNEW (Deodorizer)	Cargill Grains & Oilseed Supply Chain, Australia
BRAKE (Fractionation)	Fetraffineri Brake, Germany
WILUK	Delta Wilmar, Ukraine
CJI	CJ Cheiljedang, Korea

- Mentors and provides advice and technical direction to the less experienced Field Engineers.
- Actively leads and participates in the “People Based Quality (PBQ)” and the “Build it clean program.”
- Developing Design Delivery Schedule along with Design / Drawing Office, Project Manager, consultants, contractor and client. Manage distribution and production of project workload within team. Collaborate on new design issues and research projects with team. Lead with effective supervision an experienced design team toward greater creativity.
- Monitors drawing / design office, deal with others design office in group.
- Provides technical assistance to the Subcontractor, Field Engineers and Client Project Engineer.

- Maintains records of costs and quantity information, evaluates data and prepares applicable reports as requested by project management utilizing established, standardized automation tools.
- Review vessel design data for selection off vessel drawing. Prepared information data, design, reference and related information to drafting personal. Discuss with client for special requirement and information for equipment layout to implement in vessel design.
- Reviews design and AFC drawings, related vendor drawings and installation instructions and studies interference problems.
- Design / checked equipment layout to ensure all equipment located as per process design. Discus with client for plant / equipment layout and others matter for layout. Proposal layout will be arranging base on process, flow process arrangement, safety and maintenance
- Review AFC vessel and vendor equipment arrangement to ensure support, nozzle orientation located base on final General Layout / Equipment Layout.
- Responsible for As-Built drawings. Verifies record prints with as-built information are being maintained.
- Review Process Flow Diagram (PFD), Piping Instrument Diagram (PID), Line list and Valve list.
- Proposed piping layout Tie-In point, access way, handles ling area and main pipe route / pipe rack inside process plant. Discuss and review with client and Commissioning Engineer.

Key Accomplishments:

- Coordinate Drawing Office to ensure all drawing can deliver on time.
- Ensure all vessel design base on standard design (ASTM or Ad-2000)
- Give support to drafting to provide good drawing and all information in drawing can be use for contractor to fabricate.
- Give support to Field Engineer, Quality Control and Client.

6. See Sen Chemical Bhd.

Jan 1995 - June 1996

Position Title (Level) : Project Draftsman (Non-Executive)
Specialization : Engineering - Others
Role :
Industry : Chemical / Fertilizers / Pesticides
Salary : RM2500/month

Work Description :

- Project :
- See Sen Chemical Bhd Telok Kalong.
 - See Sen Alkali Sdn Bhd Telok Kalong.
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- Monitors design and construction drawing. Deal with consultant and constructor to provides technical assistance during installation and erection.
 - Prepared part off construction drawing not provided by consultant. Prepared pipeline port terminal / client plant
 - Prepared pipe rack to storage tank between plant and loading / unloading.
 - Prepared bill of material (BQ) including piping and fitting, manual valve base on requirement to purchase.
 - Supervise the construction activities performed by constructor for the vessel erection and piping layout.
 - Assists the contractor and Project Engineer in the Pre-Commissioning. Assists in checking all installation piping, Instrument and controller is fixed at correct location with correct position as advice by manufacture.
 - Assists contractor and Project Engineer to do pipe flushing, air test, hydro test and start-up of plant.

7. Sime Sembawang Eng. Sdn. Bhd

Feb 1992 - Dec 1994

Position Title (Level) : Piping Draftsman
Specialization : Engineering – Piping
Role :
Industry : Oil / Gas / Petroleum
Salary : RM2000/month

Work Description :

Project : BAK ,
Client : Petronas Carigali

- As-built drawing.
- Check final isometric drawing to suit / tally with route at site.
- Update isometric drawing as mark-up / checking at site.

Project : Guntong D (Production), Jerneh A
Client : Esso (EPMI)
Scope : Project Lead

- Lead 16 persons Piping Draftsman for the project.
- Prepared Bill of Material (MTO) piping and fitting.
- Prepared new isometric drawing for small bore.
- Prepared construction drawing (Isometric drawing).
- Prepared Center gravity calculation and weight of shiploads for piping section.
- Prepared pipe support detail base client standard.
- Check final isometric drawing to suit / tally with route at site.
- Update isometric drawing as mark-up / checking at site.

Project : M3PQ-A
Client : Shell
Scope : Project Lead (Piping Draftsman)

- Lead 12 persons Piping Draftsman for the project.
- Prepared Bill of Material (MTO) piping and fitting.
- Prepared construction drawing (Isometric drawing).
- Prepared pipe support detail base client standard.

General :

- Assist Engineering Executive in implementation and maintenance of MS ISO 9001 quality system.
- Control / over times working hours.
- Project schedule. Prepared and submit to section head every week (Monday).

Skill	Proficiency
AutoCad	Intermediate
MS Office	Intermediate
Project	Intermediate
MS Excel	Intermediate
PDMS	Beginner
SP3D	Beginner
MicroStation	Beginner
MS Project	Beginner

Language	Spoken	Written
<u>(Proficiency: 0=Poor - 10=Excellent)</u>		
Bahasa Malaysia	9	8
English	5	5

References

Name : Syed Lokman Hakim
Position : Senior Project Engineer, Tehnip Geoproduction
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Name : Mr Ravindran
Position : Oper. Manager, Desmet Ballestra (M) Sdn Bhd
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