

SYAFIQ AIMAAN BIN SHAMSUDIN

Address : Setapak, Kuala Lumpur
Mobile: +60 1130440243
Email: syafiqaiman1700@gmail.com



OBJECTIVE

Piping designer with 2 years' job experience, specializing in piping design. Skilled in pipe routing, layout, support design, and equipment modeling. Proficient in AutoCAD Plant 3D, Intergraph SP3D, Aveva E3D, Aveva PDMS, Navisworks, Bentley AutoPIPE & Caesar II

EDUCATION

Universiti Teknologi Malaysia (Part-time)

B.Eng (Hons.) Mechanical Engineering

Kolej Kemahiran Tinggi Mara Kemaman

Diploma in Plant Engineering Technology (Piping)

Kuala Lumpur

September 2024 - September 2029

Kemaman, Terengganu

January 2020 - December 2023

WORK EXPERIENCE

BIM SYNCRO ENGINEER SDN BHD, BSE

MEP Modeler / Piping Designer

Kuala Lumpur

January 2025 - Now

- Developed detailed 3D models using Revit under scope MEP.
- Led clash detection sessions using Navisworks and identify clashing between systems.
- Utilize Autodesk Construction Cloud (ACC) to manage project.
- Modeled existing and new piping systems using AutoCAD Plant 3D, Navisworks, RCP files, and point cloud data.
- Led coordination reviews using Navisworks and consolidated design basis comments for team alignment.
- Delivered 3D visuals, reports, and technical documentation for engineering and client use.
- Designed piping and support systems (normal & stress) in accordance with engineering standards.

KEMUNCAK LANAI SDN BHD, KLSB

Piping Designer

Kuala Lumpur

December 2023 – January 2025

- Developed 3D piping models using Plant 3D, E3D, SP3D, and PDMS.
- Produced piping layouts, isometrics, supports, and GA drawings.
- Executed clash detection in Navisworks and resolved system clashes.
- Generated MTOs and line lists for engineering and procurement.
- Interpreted P&IDs and design intent to build accurate 3D models.
- Facilitated model reviews with engineers and contractors.
- Coordinated with fabrication teams to meet construction needs.
- Supported stress engineering by preparing PCF files, adjusting routing, and implementing stress-driven design changes.
- Designed primary and secondary supports based on stress reports and load requirements.
- Modified piping layouts according to CAESAR II stress analysis recommendations.

GUNUNG BESOUT SYNERGY SDN BHD, GBS (FREELANCE)

Piping Designer

Puncak Alam, Selangor

October 2024 – December 2024

- Routed piping for multiple services according to project requirements and specifications.
- Collaborated with senior designers to develop efficient and optimized piping layouts.
- Ensured compliance with client standards, industry codes, and safety guidelines across all project scopes.
- Reviewed 3D piping models in Navisworks to detect clashes and verify design accuracy.
- Interpreted P&IDs and design intent to build accurate 3D models.
- Updated and maintained 3D piping models throughout project phases.

List of Project

1. Agpa Refinery Complex Of 1500 Tpd Physical Refiner, 1200 Tpd Dry Fraction And All Offsite Facilities - (GBS)
2. Sapphire Project (Splitting Plant -300 Tpd, Mpc -160 Tpd) - (GBS)
3. Desmet (Fat Modification Batch Chemical Interesterification) - (GBS)
4. Provision Of Piping Fabrication Drawing Preparation For Kwinana Covalent Lithium Plant – (KLSB)
5. Development Of Autocad Plant 3d And Pipe Stress Analysis For Petron Bataan Refinery, Cme Plant Project (C343) – (KLSB)
6. Engineering, procurement & supply of cme plant, petron (C344)– (KLSB)
7. Safran Phase 3 Expansion Project (Professional Aveva E3d Services Sendayan Capacity Expansion) – (KLSB)
8. As-Built Modelling FGV IFFCO Sdn Bhd. (Piping) (Lod500) – (BSE)
9. Development Of TME Refinery, Neutralization, Fractionation Plant (Lod300) – (BSE)
10. Projek Icqs Bukit Kayu Hitam. (Mep)(Lod300-Lod500) – (BSE)

KEMUNCAK LANAI SDN BHD

Kuala Lumpur

Internship | Piping Designer

August 2023 – December 2023

- Interpreted and traced complex piping routes from 3D plant models for accurate fabrication drawings.
- Generated IFC isometric (ISO) piping drawings with correct dimensions, annotations, and material lists.
- Reviewed piping models to identify inconsistencies, clashes, and missing components.
- Designed and proposed vent and drain configurations (HPV & LPD) in compliance with engineering standards

CERTIFICATE

- CIDB Green Card (1020201PP2400892330)

RESEARCH PROJECT

KKTM KEMAMAN - Final Year Project

July 2023 – June 2023

DESIGN AND MODELLING PIGGING SYSTEM

- Produced equipment drawings using AutoCAD Plant 3D..
- Developed equipment layout with removal areas, drop zones, access paths, and maintenance routes.
- Created overall piping GA drawings for the complete plant.
- Generated unit-based GA drawings with key plans.
- Prepared basic pipe stress reports for critical lines.
- Designed pipe support drawings according to layout and stress requirements.

SKILLS & INTEREST

Language : Malay (Native), English (Fluent)

Software : Revit 3D, Autocad Plant 3D, E3D, SP3D, Navisworks, SolidWorks, Microsoft Office, Inventor, Canva

Others : Interest in designing and modelling, Stress Engineering

REFERENCES

Br. Syafiee Bin Mohd Rafee
BIM Manager, BIM Syncro Sdn Bhd
syafiee@bimexpert.com.my
+60 12256 8494

Mr Sabarudin Bin Sabri
Engineer Manager, kemuncak Lanai
sabarudin.s@kemuncaklanai.com
+60193429250