

SYAFIQ AIMAN BIN SHAMSUDIN

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Portfolio: [Syafiq's Portfolio](#)



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 and architectural.
- Led clash detection sessions using Navisworks and identify clashing between systems.
- Utilize Autodesk Construction Clous (ACC) to manage project.
- Collaborated with multidisciplinary teams to ensure BIM deliverables met project milestones and client standards.
- Conducted regular BIM coordination meetings with JKR, consultants and contractors to align project objectives.
- models for HVAC, chilled water, domestic water, and sanitary plumbing systems based on site information, RCP scans, and existing drawings.

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)
11. As-Built Modelling ARKIB Negara (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, Navisworks, SolidWorks, Microsoft Office, Inventor, Ansys, Canva, E3D, SP3D,

Others : Interest in designing and modelling, Stress Engineering

REFERENCES

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