



MASRUL AHMADI BIN KHAIRUL

Seeking a challenging role that maximizes my 8 years of diverse engineering experience, spanning project management in engineering and operations especially in waterworks and chemical plants. Ready to apply extensive expertise in strategic planning, business development, and team leadership to drive growth, profitability, and optimize organizational performance in a dynamic market.



Personal Information

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Skills

– PROFESSIONAL SKILLS

Adaptive Decision-making
Professional

Innovative Problem-solving
Professional

Efficient Resource Allocation
Professional

Collaborative Team Player
Professional

Diverse Engineering Background
Professional



Strengths

Decision-making and Conflict Resolution

Creative Problem Solver

Effective Task Prioritization

Team Collaboration



Work Experience

Senior Mechanical & Electrical Engineer SANLI M&E ENGINEERING SDN BHD

02/2024 – present KOTA TINGGI, MALAYSIA

Assigned to the Instrumentation Control and Automation unit and tasked with the planning and executing the installation of critical equipment such as pumps, control valves, analyzers, transmitters, and more. Manage and coordinate the development of the SCADA system (control philosophies and platform) including the Site Acceptance Testing (SAT) and Testing & Commissioning (T&C) processes to ensure the highest standards of quality and functionality are met.

- Prepared engineering documents for approval submissions, revising based on review comments
- Issued final specifications and Bill of Materials (BOM) for purchase orders and requisitions
- Coordinated deliveries, installations, and project activities with vendors, subcontractors, and internal teams
- Engaged with clients and consultants to address engineering requests and resolve technical issues
- Supervised drafters in the production of technical drawings
- Ensured safety compliance by preparing Risk Assessments, Method Statements, and Permits to Work
- Developed micro schedules and monitored progress for timely completion of construction activities

Project involvement:

New Disinfection Systems in Johor River Waterworks (PUB), Kota Tinggi



Work Experience

Senior Executive (Head of Sub-Unit Planning) PENGURUSAN AIR SELANGOR (STATE WATER OPERATOR)

06/2021 – 01/2024 KUALA LUMPUR, MALAYSIA

Spearheaded and supported the Head of the Section (Meter Management) in exploring, proposing, strategizing, and implementing new and emerging technologies for metering and connectivity.

- Conducted comprehensive research and gathered information to develop a long-term strategy aligned with Air Selangor's business objectives. Aimed to enhance operational efficiency, reduce OPEX, and improve customer experience.
- Led project planning, scheduling, and milestone tracking, ensuring the timely progress of initiatives.
- Managed budgeting, OPEX & CAPEX cost control, and documentation preparation, ensuring financial alignment with project goals.
- Oversaw resource allocation, coordination, and contract management, including procurement of equipment and labor mobilization.
- Established policies, processes, risk assessment, and management strategies for metering, disseminating these to department heads and units.
- Facilitated communication between vendors and various departments within Air Selangor to ensure effective collaboration.
- Conducted data interpretation, analysis, and reporting informing decision-making and guide future improvement initiatives.

Project involvement:

Integrated Wireless Metering Solution for Pengurusan Air Selangor

Mechanical Engineer (General) PURI-TEQ PTE. LTD.

03/2019 – 02/2020 SINGAPORE

Assigned to diverse local projects encompassing field services, project management, and execution, with a focus on waterworks and chemical plants.

- Engaged in client liaison and addressing service inquiries to ensure customer satisfaction.
- Conducted a range of field services activities, including maintenance for penstock, stoplog, conveyor, knife gate valve, air pollution control systems, and other supplied products.
- Provided supervision for the installation of equipment, ensuring accuracy and efficiency.
- Supported and managed equipment warranties for delivered products.
- Assisted in the preparation of tenders and technical submissions for prospective projects.

Singapore projects involved:

- Boustead Salcon, Toshiba Cirebon 2 – Manufacturer's representatives (Penstock)
- Boustead Salcon, Matarbari Project – Manufacturer's representatives (Penstock)
- C2A – Pumping Station, TWRP - Manufacturer's representatives (Knife Gate Valve)
- C3A – Industrial Liquids Modules, TWRP – Manufacturer's representatives (Tendering)
- C4A – Biosolids and Digesters, TWRP - Manufacturer's representatives (Tendering)
- C22B – CWRP, Phase 2 - Manufacturer's representatives (Penstock & Stoplog)
- DAWTP 1 - Manufacturer's representatives (Penstock)
- DAWTP 2 - Manufacturer's representatives (Penstock)
- JIDP - Manufacturer's representatives (Penstock and Stoplog)
- JWRP - Manufacturer's representatives (Conveyor and Slide Gate)
- KWRP - Manufacturer's representatives (Penstock, Stoplog, and Bioscrubber)
- Pfizer Asia Pacific Pte Ltd - Supply system (Chemical Scrubber for HCL)

Engineering Supervisor MV RESOURCES (FE) PTD. LTD.

04/2016 – 02/2019 SINGAPORE

Managed and oversaw diverse local projects involving modification, troubleshooting, service, and maintenance of valves and actuators, including assignments on offshore oil rigs and drill ships.



Work Experience

- Led modification, troubleshooting, and maintenance of valves and actuators for diverse projects, including offshore rigs and drill ships.
- Supervised assembly, testing, and maintenance in the workshop, ensuring functionality.
- Managed job distribution, planning, and collaborated with clients and suppliers for seamless service.
- Analyzed technical documents, prepared reports, and checklists for engineers and clients.

Singapore Projects Involvement:

- Navy Vessel, BO668 – BO675 (ST Marine Benoi & Tuas Yard)
- BW Offshore, Azurite/Adolo – (KEPPEL TUAS SHIPYARD)
- Ensco 108 - FPSO (KEPPEL TUAS SHIPYARD)
- E+H – Bunker Vessel (Onboard Vessel)
- HMC, HEEREMA - New Semi-submersible Crane Vessel (Tuas Megayard)
- Teekay, Banyu Urip - FPSO (Admiralty Megayard)
- Teekay, Libra - FPSO (Admiralty Megayard)
- Modec Offshore, Vessel 1059 & 1060 – tank gauging system (Saigon Triyard)
- M+W Singapore, VerdePalm Proj, Malaysia
- Transocean, Vessel 1116 & 1117 – Drill Rig (Tuas Megayard)
- Jaldenul, H402 – Dragger (KeppelFELS)

Installation Supervisor
MARKING SERVICES INC. (S) PTE. LTD.

02/2015 – 03/2016 SINGAPORE

Oversaw installation and site surveys for Pipe Markers, Signage, and Identification Tags across diverse offshore oil rigs, drill ships, and onshore oil/gas facilities.

- Managed installation and surveys for Pipe Markers, Signage, and Identification Tags across offshore oil rigs, drill ships, and onshore facilities.
- Oversaw daily activities, conducted detailed drawing analysis, and facilitated field engineering for project quotations.
- Executed in-house engineering tasks, assisted in marker production, and provided concise Daily Status Updates to management.

Singapore projects involved:

- Singapore LNG Corp – LNG Terminal (Jurong Island)
- ExxonMobil (SBA Project) – Refinery (Jurong Island)
- Afton Chemical (Phase 1) – Chemical (Jurong Island)
- Bumi Armada, KRAKEN-ENQUEST – FPSO (KEPPEL TUAS SHIPYARD)
- PV Drilling IV - Jackup B Class (KEPPEL FELS)
- Ensco 110 - Jackup B Class (KEPPEL FELS)



Skills

– COMPUTER

Microsoft 365

AutoCAD (2D & 3D)

SolidWork

Microstation V8 (BIM
Modeller)

Microsoft Power
Automate

Microsoft Power Apps

Azure Data Studio



Education

Mechanical Engineering | Bachelor's Degree
UNIVERSITI TEKNOLOGI MALAYSIA, JOHOR
SKUDAI, MALAYSIA



Certificates

Develop a Risk Management Implementation Plan **CCIS Singapore Pte. Ltd., Singapore**

10/2016

WSQ Supervise Workplace Safety and Health in Process Plant **ASPRI Pte. Ltd., Singapore**

10/2015

Building Construction Supervisors Safety Course **NTUC LearningHub Pte. Ltd., Singapore**

09/2015

Work-At-Height Worker Course **NTUC LearningHub Pte. Ltd., Singapore**

09/2015



Volunteering

2nd Lieutenant **Malaysian Reserve Army**



Hobbies



Reading news and articles



Feeling the music



Exploring distant lands