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|  **KHAIRUL HAKIMI BIN AWANG** |

*Registered with Board of Engineers Malaysia (93077A)*

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+60179359035

16th May 1986 (DOB)

7754 Kampung Tanjung Sabtu, Manir, 21200, Kuala Terengganu, Terengganu, Malaysia.

*Expected Salary : MYR 16,500.00 / Monthly (Negotiable)*

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|  **SUMMARY** |

 Highly experiences in Electrical and Instrumentation Engineering, Project Management, Operational and Maintenance in oil and gas industry for since 2009 and chemicals plant since 2017. I had involved in various project stage such as Conceptual, FEED, Details Design, Fabrication, Construction, Installation, Hook-up & Commissioning, Start Up, Facilities Handover and Projects Risk & Independent Assessment for offshore projects in Green and Brown Field.

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|  **EDUCATIONAL BACKGROUND**  |

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| **DEGREE**2005 – 2009UNIVERSITI TEKNOLOGI MALAYSIA (UTM), SKUDAI, JOHOR.***Bachelor of Electrical Engineering (Instrumentation and Control)***CGPA 3.18 (Second Class Upper) | **MATRICULATION**2004 – 2005MALACCA MATRICULATION COLLAGE, MALACCA.Science Physic with CGPA 3.22 | **SIJIL PELAJARAN MALAYSIA**2002 – 2003SEKOLAH MENENGAH TEKNIK TERENGGANU.Civil Engineering with SPM 8A 1B 1C |

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| **CERTIFICATES** |

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| * **OPITO, T-BOSIET expired 2020**
* **Certificate of PCSB Permit to Work (PTW) System Assessment**
* **Attended PCSB Management of Change (MOC) Level 2**
* **Attended Hydrogen Sulphide (H2S) Awareness Offshore**
* **Attended Pre‐Activity Safety Review (PASR) Course**
 | * Certificate of Instrument Calibration, ILP.
* Certificate of Control Valve and Auxiliary Instrument, ILP.
* Certificate of Gumusut‐Kakap Project Welding Supervision.
* Certificate of AutoCAD Level 1, UTM
* Certificate of Occupational Safety and Health Awareness, UTM
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| **SOFT SKILLS VALUES /PROFESSIONALISM** |

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| -Project Management-Operation and Maintenance-Quality and Standard-Engineering and Studies-Commissioning and Start Up- Planning and Execution | -Effective-Ownership-Systematic-Integrity-Responsible-Leadership |

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| **SOFTWARE TOOLS INTEREST POSITIONS** |

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|  | #Electrical Engineer#Commissioning Engineer#Maintenance Engineer / Planner#E&I QAQC Engineer#Project Liaison #Operation Readiness#Project Engineer |

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| **WORKING EXPERIENCES** |

1. **EMERY OLEOCHEMICALS (M) SDN BHD**

**DEPARTMENT :** MAINTENANCE (ELECTRICAL AND INSTRUMENTATION SECTION)

**DIVISION :** TELUK PANGLIMA GARANG, SELANGOR FOR ASIA PACIFIC DIVISION

**DURATION :** 10th OCTOBER 2016 UNTIL PRESENT

* **Assign as Senior Engineer, Electrical & Instrument**

***Responsibility and Accountability:***

1. ***Electrical and Instrumentation Section Management and Planning***
* Manage an executive E&I, a supervisor Electrical, a supervisor Instrumentation, 5 Instrument Tech and 10 Electrical Chargeman (B0, A0 & A4) to do servicing and maintenance for 23 acre plant consist of 5 main plant at Emery Oleochemicals ( M) Sdn Bhd.
* Monitor electricity and utilities consumption and take necessary measures for 5 main Plant, 4 sub plant and 3 sub plant operated by third party with 4 substations 11kV from TNB.
* Identify and record any electrical and instrumentation service quality problems and ensure that solution to the problems is provided.
* Provide monthly analysis and maintenance activities for the inspection of the 11KV switchboard panels, 11 units Transformer, LV MSB and LV Sub Switchboard and 7 units Standby Generator set.
* Supervise and control maintenance of activities for proper implementation, supervise schedules and responsible for the maintenance, overhaul, repair, schedules checks and calibration of process and general service instruments, controllers, safety controls and communication.
* Development of electrical and Instrumentation maintenance implementation strategy optimize facilities & equipment uptime to support sustainable operation in compliance to Key Performance Standard / Standard Operating Procedure and Maintenance Plan
* Conduct, organize, plan, operate, safety precautions & carry out periodical preventive and predictive maintenance, trouble shooting and corrective maintenance to prevent or minimize breakdown and power failure and responsible for preventive maintenance to minimize Electrical and Instrumentation interruption and machinery / equipment breakdown.
* Review and propose major and critical spares stocking level in order to minimize equipment maintenance shutdown while optimizing cost. Ensure optimum spare parts availability with spare part strategies with Emery Oleochemicals (M) Sdn Bhd. procurement.
1. ***Financial***
* Control the utilization and optimization of the electrical and Instrumentation maintenance budget in order to manage the maintenance cost effectively at Emery Oleochemicals (M) Sdn Bhd.
* Conduct monitoring, trending and tracking of power consumption by taking reading for end the month and finalize the closing with engineer prior submission to Emery Oleochemicals (M) Sdn Bhd. Finance.
* Managing utilization of CAPEX and OPEX.
1. ***Vendor***
* Develop and review Service & Contract Agreement with vendors, conduct tender/quotation for vendors and obtain management approval for vendors selected.
1. ***HSE & Process Safety Management***
* Supervise, control and report on the MOC, HAZOP and safety of the installation.
* Implement and ensure that all safety rules and regulations or policies are laid down by Management are followed.
* Receive, investigate & resolve complaints on instrumentation and electrical related matters if have any breakdown, emergency, incident which is related to electrical and Instrumentation section to any emergency fault or critical breakdown in the building, plants even during night, rest days and public holidays.
1. ***Authorities***
* Liaise with utilities providers and other regulatory bodies on utility services and compliances issues such as TNB, DOSH, Energy Commission (ST), M&E Consultants and other Government Agencies.
1. ***Quality and Procedure***
* Ensure all upgrading works carried out complies with the building, plants procedures and relevant authorities’ requirements, International Standard and completed within a stipulated time frame.
* Manage customer, external and internal Audit for meet SIRIM, ISO, JAKIM, DOSH, AELB standard.
1. Plan, monitor, coordinate and check maintenance activities and procedurestogether with line Maintenance Planner and Maintenance Manager
2. •
3. Monitor electricity and utilities consumption and take necessary measures toreduce consumption in assistance with Maintenance Manager
4. •
5. Define and control training and appraisals for Electrical and InstrumentationTechnicians.
6. •
7. Plant, assist and prepare special studies, process control and automation.
8. •
9. Supervise, control and report on the safety of the installation.
10. •
11. Supervise and control and recommend technical materials, electrical andcontrol equipments suppliers.
12. •
13. Plan and coordinate outside contacts on local electric supply (applicable forIS-Power Plant Area)
14. •
15. Check, evaluate, monitor and motivate the performance, efficiency andattendance of the Line E/I Technician staff, taking necessary prompt action torecommend good performance or correct poor or sub-standard performance.
16. •
17. Recommend, lay-down and execute management policies affecting his area of responsibility including the hiring of necessary Electrical and InstrumentationTechnicians
18. •
19. Transfer, suspend, lay-off, recall and discharge or otherwise imposeappropriate disciplinary action on Line Electrical and InstrumentationTechnicians.
20. •
21. Implement and ensure that all safety rules and regulations or policies are laiddown by Management are followed.
22. •
23. Identify and record any electrical and instrumentation service qualityproblems and ensure that solution to the problems is provided.
24. •
25. Ensure that corrective actions are followed up and implemented.
26. •
27. Responsible for the correct and good quality repair, overhaul, scheduledchecks/ test and re-calibration of all process related and QA instruments/equipment and safety controls in the factory in accordance withmanufacturers maintenance manuals and Engineering standard and practices.
28. •
29. Supervise and control maintenance of activities for proper implementation,supervise schedules and responsible for the maintenance, overhaul, repair,schedules checks and calibration of process and general service instruments,controllers, safety controls and communication
30. •
31. Ensure that safety precautionary measures are being followed andimplemented.
32. Plan, monitor, coordinate and check maintenance activities and procedurestogether with line Maintenance Planner and Maintenance Manager
33. •
34. Monitor electricity and utilities consumption and take necessary measures toreduce consumption in assistance with Maintenance Manager
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59. •
60. Supervise and control maintenance of activities for proper implementation,supervise schedules and responsible for the maintenance, overhaul, repair,schedules checks and calibration of process and general service instruments,controllers, safety controls and communication
61. •
62. Ensure that safety precautionary measures are being followed andimplemented.



1. **PETRONAS CARIGALI SDN BHD (PCSB).**

**DEPARTMENT : OPERATION READINESS STRATEGY AND ASSURANCE (ORSA).**

**DIVISION :** PENINSULAR MALAYSIA OPERATION, PMO, KERTEH.

**DURATION :** JANUARY 2012 until 5th MAY 2016 (CONTRACT).



1. ***HSE***
	* Implemented HSE element (Health, Safety, Environment, Security & Legal Compliance) throughout project development and execution phase, and continue to roll over into normal operation
2. ***Electrical and Instrumentation***
	* Execution of reliability and integrity of Electrical & Instrumentation in accordance to PETRONAS Reliability, Integrity Maintenance System (RIMS) and PETRONAS Project Management System (PPMS).
3. ***Pre- Commissioning and Commissioning***
	* Perform overall supervision of pre-commissioning and commissioning activities on all system as per scheduled, acceptance criteria and startup specific procedures, documentations and ensure completion on time prior to hand over to operation team.
	* Consist of, HV/MV/LV switchgears, motor control centers, motors, UPS, Navigation Aids, Panels, DB, JB DCS, FGS, HVAC, Generators, PAGA, Helideck equipment’s, lighting, Telecommunication and DC charger systems.
4. ***Operation and Maintenance***
	* Develop planning for Preventive Maintenance Program and Corrective Maintenance such as SPIR, Equipment Register, Catalogue Profile, ECA, MPLAN, SERP (ITPM), SCE, and OPS & establish Spare Part List and Maintenance Contract into SAP.
	* Lead Operation readiness assessment (ORA),integrate and developed SIMOPS for tighten the preparation Angsi Turn Around / Shutdown 2015 at Angsi Platform
5. ***Process Safety Management***
	* Lead Operation Readiness for Technical Integrity Process Safety (TIPS) for ORSA to ensure all projects meet deliverables of Process Safety Management (PSM) compliance during full cycle for projects;
	* Lead ORSA for HSE Case BESAR-A Development Project with integration between Operation, Asset, Project Team and RNZ. Deliverables are ESSA, EERA, QRA, HER, ALARP Level, Bowtie, MAH, MOPO, SIMOPS, SCE, Critical Activity Matrix and PS.
	* Lead ORSA for development and planning for Maintenance Integrity with PMMS for development of Asset registration and Maintenance Plan for Preventive Maintenance Program and planning of Corrective Maintenance for projects equipment’s.
6. ***Quality and Standard***
	* Involved in review and develop procedures, ITP, Work pack, CTR, ITB, Check Sheet, Sub System Handover, and Project Standard Procedures to meet with PETRONAS TECHNICAL STANDARD.
7. ***Documentation and SOP***
	* Establish Commissioning & Start Up (CSU) strategy for the project to ensure start-up and operational requirements are addressed and resulting in safe, smooth and flawless start-up
	* Developed and reviewed Operation Procedures (OP), Specific Equipment Reliability Plan (SERP), and Operation Procedures Manual (OPM).
8. ***Engineering and Studies***
	* Lead Operation Readiness during engineering design, FEED, Details Design, Project Independent Review, HAZID, ELSOR, Risk Assessment and Line Department review.

**PROJECTS INVOLVED:**

1. **PETRONAS- BESAR-A Development Project- (Assigned as Operation Engineer)**
* Conceptual, FEED & Details, Engineering, Construction, Installation and Commissioning Wellhead Platform (GAS) consists of Jacket, Topside, Pipeline, Host Tie in and Slug-catcher.
1. **PETRONAS- Angsi Booster Compressor (AFUP) Project- (Project Coordinator & Electrical Engineer)**
* Details Design, Construction, Installation and Commissioning of Module, 2 unit of Booster Compressor (SOLAR) and Condensate Transfer Pumps.
1. **PETRONAS- Water Flooding Optimization (WFO) Project- (Project Coordinator & Electrical Engineer)**
	* Engineering, Construction, Installation and Commissioning of Turbine Generator (Rolls-Royce) Allison 4.0MW, Deaerator Tower and Water Injection Pumps.
2. **PETRONAS- Initial Facility Handover Tangga Barat Cluster Phase 1- (Operation Readiness)**
	* Involved with handover GAS facilities of Central Processing, Two Wellhead Platforms and Pipeline.
3. **PETRONAS- Final Facility Handover SEPAT EPS- (Operation Readiness)**
	* Involved with handover of OIL facilities consists of MOPU and FSO.
4. **PETRONAS- Final Facility Handover Angsi-TCOT Pipeline- (Operation Readiness)**
	* Involved handover of 165 KM, 24 Inch offshore pipeline.



1. **MALAYSIA MARINE AND HEAVY ENGINEERING (MMHE).**

**PROJECT : GUMUSUT-KAKAP SEMI-FPS *(TOPSIDE)* PROJECT.**

**CLIENT :** MISC & SABAH SHELL PETROLEUM CO. LTD (SSPC).

**DURATION :** SEPTEMBER 2009 – DECEMBER 2011 (CONTRACT).

* **Assign as LEAD Quality Assurance Electrical & Instrument Inspector, QA E&I for**

**SCOPE OF WORK:**

* Responsible for Quality Assurance Electrical & Instrument (E&I) for Gumusut-Kakap **(TOPSIDE)** Project as per specs and as per drawing to monitoring daily activities against plan schedule and re-schedule plan as per progress status.
* Supervised the work carried out to ensure the requests are carried out accordingly with IFC (Issued for Construction) drawing based on the latest drawing.
* Inspect and monitor the availability of direct or indirect materials affecting the plan, material receiving and also raise & closed Material Deficiency Report (MDR) accordance the PO, DO, Mills Cert and Inspection and Test Plan (ITP).
* Supervised the Inspection and monitoring quality of work, product and equipment functionality to compliant client requirement by testing and measuring representing MMHE Electrical & Instrument (E&I) discipline.
* Responsible in inspection on construction and installation of Systems Fire and Gas, Telecommunication Systems/PAGA, and CCTV.
* Responsible in inspection on construction and installation of Telecommunication Systems for Digital Troposcatter Radio System (DTS) and GPS Antenna.
* Assist PMT Engineer to review, check and comment the electrical Single Line Diagram, Electrical Layout (Equipment Layout, Cable ladder Layout, Earthing Layout & Cable Routing), Cable Schedule for modification works.
* Assist PMT Engineer to review, check and comment the Instrument Signals and Loops, Impulse Lines, Tubing Routings, Fusible Loop Layout and Instrument Location.
* Monitoring, Raise, Follow up, cleared and closed all Inspection Test Reports (ITR) and the punch list which is outstanding and made accomplishment with progress result.
* Liaise with client site representative, subcontractors, vendors and suppliers.
1. **Apprentice QA Inspector E&I at Malaysia Marine and Heavy Engineering (MMHE).**

**PROJECT :** GUMUSUT KAKAP SEMI-FPS (HULL) PROJECT

* Six months training under GEMS programme as a QA Electrical & Instrument (E&I) undergo for GUMUSUT-KAKAP PROJECT to develop the potential and competency.
* Assigned in quality inspection based on fit-up and visual request based on fabrication and installation specification of Inspection and Test Plan (ITP).
* To establish, implement and monitor the quality to ensure the fabrication and installation of E&I in accordance with technical specifications, drawings and specified codes practices.
* Supervised the Inspection and monitoring quality of work, product and equipment functionality to compliant client requirement by testing and measuring for MMHE QAI Electrical & Instrument (E&I) discipline.
* Monitoring activities through the quality control to ensure compliance the requirements throughout the several of the project or work being carried out.
1. **Trainee Engineer at Sumai Engineering Sdn Bhd.**

**DURATION :** May 2008 - July 2008

* Assisted in automotive harness wiring bus and lorry for new production.
* Assisted to Project Engineer undergo of Production New Bus for DBKL.
* Monitor and control all the tools usage in the production line involved.
* Assisted in Electrical installation works at Workshop.

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| **ADDITIONAL INFORMATION** |

**Availability : 2 Month Notice**

**Willing to travel : YES**

**Willing to relocate : YES**

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|  **REFERENCES** |

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| **MR. IMRAN BIN ISMAIL**Senior Manager, HODMaintenance & Engineering,Tel: +603 33268772Emery Oleochemicals (M) Sdn Bhd,Lot 4, Jalan Perak, Kawasan Perusahaan, 42500 Telok Panglima Garang,Selangor, Malaysia*Imran.Ismail@emeryoleo.com* | **MR. ADZUAN FAISAL BIN AHMED**Head of DepartmentTel: 09867630Petronas Carigali Sdn Bhd(PCSB),Operations Readiness (POR) Department, Peninsular Malaysia Asset (PMA), Kompleks Operasi Petronas, 24300 Kertih, Kemaman, Terengganu.*adzuanfaisal@petronas.com.my*. | **MR. YUSHAFIDI BIN YUSOF**Head of DepartmentTel: 09867162Petronas Carigali Sdn Bhd (PCSB)Operations Readiness Strategy And Assurance (ORSA) DepartmentPeninsular Malaysia Operations (PMO) Kompleks Operasi Petronas, 24300 Kertih, Kemaman, Terengganu.*yushafidi\_ yusof@petronas.com.my* |

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| **PM DR. YAHAYA BIN MD SAM**Personal AcademicHead of Control and Instrumentation Engineering Department, CIEDFaculty of Electrical Engineering,Universiti Teknologi Malaysia, (UTM)*yahaya@fke.utm.my* | **MR. ZAIRI**SSPC Senior E&I InspectorHP: 019‐2120103Sabah Shell Petroleum Corporation (SSPC),Gumusut Kakap Semi‐FPS Project,C/O MMHE, PLO 3, Jalan Pekeliling,P.O Box 77, 81707 Pasir Gudang, Johor. | **MR. ALI BIN HASSAN**QUALITY ASSURANCE MANAGERTel: 07‐2683255Malaysia Marine and HeavyEngineering (MMHE),Engineering and ConstructionDivision (E&C),GUMUSUT‐KAKAP SEMI‐FPS Project,PLO 3, Jalan Pekeliling, P.O Box 77,81707 Pasir Gudang, Johor. |