

# Muhamad Ridhuan Bin Halim



ridhuanhalim11@gmail.com



[linkedin.com/in/muhamad-ridhuan-halim-8abbb71b5/](https://www.linkedin.com/in/muhamad-ridhuan-halim-8abbb71b5/)



013-5851147



12-3-11, Prisma Cheras Condominium, Jalan Midah  
8a, Taman Midah, 56000, Wilayah Persekutuan  
Kuala Lumpur

## Summary

I'm Ridhuan Halim, born on 3<sup>rd</sup> August 1997, married with one kid, and have obtained my bachelor's degree in electrical and Electronic Engineering (Power) from Universiti Pertahanan Nasional Malaysia (UPNM) in 2020. Currently working as facilities engineer at CBRE GWS Malaysia under technical services division.

Registered Engineer under Board of Engineers Malaysia (BEM) and Malaysia Board of Technologies with comprehensive knowledge and experience regarding reliability and maintenance strategy like preventive, predictive condition based maintenance and also engineering.

Familiar with the application of CMMS, building electrical system, HVAC system, building fire system, lift and plumbing. Well exposed with the building facilities as to keep them under good condition to be operated. Strongly applied any engineering technique that able to keep the building at its optimum efficiency without neglecting cost saving strategy.

***#HustleToTheHallOfChampions***

## Experience



### **Facilities Engineer**

CBRE GWS (Technical Services)

Jan 2023 - Present

#### **SHELL (Engineer / ESG lead)**

- Consult Shell ESG team for the latest technology innovation related to ESG for their HVAC/Chiller system
- Prepare monthly work order analyst to determine the root course of repeated failure on client facilities system
- Prepare report on root course analyst and propose solution for repeated failure case based on analyst done with implementation of carbon reduction to Regional Operation Manager.
- Prepare a BTU calculation report for selected station to consult client on their HVAC efficiency
- Planning and scheduling preventive/proactive maintenance for client OPEX programmed
- Coordinate with the regional technician's team to carry out PPM & corrective maintenance (CRM) work
- Performed routine on site inspection to make sure all technicians/vendor are following the safety requirement
- Prepare a spare parts expenditure & usage record and forecast spare parts needed to procurement for PO
- Prepare for RFP/RFQ for HVAC & Chiller CAPEX project which include costing, planning and HSE
- Prepare for quarterly performance meeting with Shell team to review team KPI

### **Maxis & Decathlon (Engineer)**

- Project lead for water saving initiative for selected Maxis outlet
- Responds to client inquiries and concerns. Ensures timely and quality service delivery to clients. Follows up with clients to ensure customer satisfaction.
- Planning and scheduling preventive/proactive maintenance for client
- Creates work orders and assigns work orders to multiple technicians, sub-contractor and vendor.
- Assigned work orders to technicians and assists management in resolving problems.
- Coordinate the regional technician's team to carry out PPM & corrective maintenance (CRM) work
- Performed routine onsite inspection to make sure all technicians/vendor are following the safety requirement
- Provides reports on open and closed work orders and checks status with the technician
- Raised quotation to client upon job done.
- Maintains files on work orders, proposals, and department files.
- Prepare monthly maintenance reports to be presented to the customer.
- Creates vendor files and checks accuracy on completed paperwork submitted by vendors.
- Processes invoices and ensures proper cost and cross check with finance team
- Assists with the inspections on site.
- Assist technician team on weekly safety training.



### **Executive Facilities Management Project**

MRANTI

Sep 2022 - Jan 2023

- Ensuring basic facilities are well-maintained and conducting preventive and proactive management and maintenance.
- Planning and scheduling preventive/proactive maintenance and regular building repairs.
- Procurement and contract management including handling legal or contractual matters (with third-party suppliers/contractors/vendors) in relation to facilities management and maintenance.
- Comply with health and safety regulations, and ensure facilities meet government regulations and environmental, health and security standards.
- Drafting proposals, reports and writing recommendations.
- Assist in overseeing any renovations, refurbishments and building projects.
- Assist in project management, supervising and coordinating suppliers/contractors/vendors works.



## **Facilities Engineer**

SSRV (M) Sdn Bhd

Nov 2021 - Sep 2022

Facilities engineer at Plaza Sentral, Kuala Lumpur

- To assist and support the Facilities Manager and Building Manager in Facilities Management activities for Plaza Sentral
- Response and attend to any complaint received from tenants and client.
- Maintained all records pertaining operation and maintenance of the property.
- Manage and monitor renovation work by tenants. Ensure proper coordination to avoid damage to building existing system.
- Arrange and manage Bomba inspection for renewal of Fire Certificate.
- Arrange and manage Plaza Sentral regulatory requirement such as JKKP Inspection for lifts and gondola (PMA Certificate), Pendaftaran Perpasangan HT, LV (Suruhanjaya Tenaga), and Fire Extinguisher renewal.
- Participate in the fire drill exercise and formation of Emergency Response Plan.
- To compile and verify defects during the project handover, arranged and join with the inspections and meeting with the contractors.
- Maintaining the daily activities on building services maintenance, office building cleaning, hygiene care, pest control, landscape and renovation.
- Prepare an accident report to the customer and provide them with the best solution.
- Prepare monthly maintenance reports to be presented to the customer.
- Prepare documentation for procurement – Quotation from contractor, General requisition, Purchase order, invoice and Payment requisition.



## **Maintenance Engineer**

QF Engineering Sdn Bhd

Jun 2021 - Nov 2021

Maintenance Engineer at SSM Tower, Kuala Lumpur

- Plan and prepare daily, weekly, monthly, quarterly, and annual schedules for electrical/mechanical/civil systems for Plan Preventive Maintenance (PPM) works.
- Coordinate the technician's team to carry out PPM & corrective maintenance (CRM) work
- Ensure that all systems contained in the maintenance building contract are in good condition.
- Ensure that all CRM resulting from PPM work is implemented according to the system.
- Prepare an accident report to the customer and provide them with the best solution.
- Prepare monthly maintenance reports to be presented to the customer.



## **Electrical Project Engineer**

Public Works Department Malaysia [Jabatan Kerja Raya Malaysia]

Oct 2020 - Jun 2021

### **Manage Hospital Parit Buntar project**

- Verify the shop drawing, construction drawing and manufacturer drawing based on JKR specification
- Verify the material approval for the project based on contract and JKR specification
- Verify the method statement from the consultant based on JKR specification
- Verify and approved the interim payment for the contractor based on the construction progress

### **Manage Hospital Seberang Jaya project**

- Verify the electrical and ICT schematic drawing from sub-contractor
- Verify the material approval given by the sub-contractor based on JKR specification
- Went to the factory recommend by the sub-contractor to test and approve the equipment for the project based on JKR specification

### **Manage Hospital Serdang project**

- Went to the Hospital to do a site visit and check the progression done by the contractor
- Verify the installation method done by the contractor based on JKR specification
- Verify the equipment used for the project based on the contract that was approved by JKR



## **Electrical Engineer**

Kejuruteraan Letrik KB Sdn Bhd

Sep 2020 - Jun 2021

- Sent to 'Pasukan Projek Khas 1 in JKR to help the engineering team managing the Hospital projects



## **Internship Program**

Tenaga Nasional Berhad, Kota Bharu (33KV Division)

Jul 2019 - Sep 2019 (3 months)

- Involved in 33kv cable installation work
- Working with the maintenance team in detecting underground cable defect
- Monitoring vendor to do underground cable work



## **Maintenance assistance (part time)**

Universiti Pertahanan Nasional Malaysia

2019

- Assist technician in doing electrical related kind of work
- Assist technician to do electrical wiring for lab and practical room

## **Education**



### **Universiti Pertahanan Nasional Malaysia**

Bachelor's degree, Electrical and Electronics Engineering (Power)

2016 – 2020

Foundation in Defense in Engineering and Technology

2015

### **FYP PROJECT**

#### **Design of IOT-based Collision Avoidance System (CAS) for Underactuated Quadroter in Confined Space Gas Sensing Application**

- A Collision avoidance system (CAS) for quadroter using ultrasonic sensors (US) that able to detect obstacle was developed
- An IOT-based was developed to detect the gas leakage
- Validate the performance of IOT-based CAS and simulating quadroter flight it in a confined space condition



### **Sekolah Tuanku Abdul Rahman**

Pure Science (SPM)

2010 - 2014

## **Licenses & Certifications**



**Graduate Engineer** - Board of Engineers Malaysia (G1203750A)



**Graduate Technologist** - Malaysia Board of Technologists (GT21110425)



**Introduction to Programming Using Python** - Ninja Code Academy



**Green card** - CIDB Malaysia (1970803KN2100379537)



**ISO 9001:2015 (Internal Audit)** - Tri systems consulting

## **Skills**

- Facility Management (FM) • Team Coordination • Negotiation • Budget Management • Microsoft Office •  
• Engineering • Electrical Wiring • Maintenance

