



## MOHAMAD IRFAN ABDUL HALIM

### CONTACT



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40300, Shah Alam, Selangor



<https://irfanabdhalim.wixsite.com/portfolio>

### CORE STRENGTHS

Power System  
Design



Research &  
Development



Troubleshooting,  
Testing & QA



Time management  
& Prioritization



Risk Assessment  
& Management



### TECHNICAL SKILL

AutoCAD



Microsoft Office



Solidworks



Illustrator



Digsilent



Autodesk Revit



### HOBBIES

GARDENING, CODING, MUSIC

# IRFAN HALIM

## ELECTRICAL ENGINEER

Self-motivated, hardworking, and having passion in learning. Culturally sensitive and able to communicate with different background of people. Seeking for a place to enhance my professional skills in a dynamic and stable workplace in order to apply the knowledge and looking forward to gain new skills to increase expertise and competencies in becoming the most valuable engineer

## PERSONAL INFORMATIONS

IDENTITY CARD NO  
891009105303

GENDER  
MALE

MARITAL STATUS  
MARRIED

RELIGION  
ISLAM

NATIONALITY  
MALAYSIAN

DATE OF BIRTH  
09 OCTOBER 1989

AGE  
29 YEARS OLD

PLACE OF BIRTH  
SELANGOR

## EDUCATION

2014-2017

UNIVERSITI KUALA LUMPUR, Gombak

Bachelor of Engineering with Honours (Electrical)

CGPA : 3.06

Status : Completed

2011-2013

UNIVERSITI KUALA LUMPUR, Gombak

Diploma Engineering Technology in Medical  
Electronics

CGPA : 3.48

Status : Graduate

## ACADEMIC COURSE TAKEN



### Electrical Engineering Cores

- Engineering Drawing and CAD
- Power System
- Power System Control and Analysis
- Electromagnetic Theory
- Automation and Robotics
- Electrical Machine and Drive
- Electrical Protection System
- Electrical System Design in Building
- Electrical System Reliability
- Further Control System
- Microcontroller and Interfacing
- Network Analysis
- High Voltage Engineering
- Power Quality
- Control System
- Measurement and Instrumentation
- Power Electronics
- Microprocessor System

## ACHIEVEMENTS

- 2017 Dean List Award  
- GPA : 3.67  
Capestone Competition  
(Home Automation via IOT)  
- 2nd Runner up
- 2016 Technopreneur Inventor  
Competition (MYreno')  
- 2nd Runner up
- 2013 Final Year Project ( Heart  
Rate Measurement by  
Using Fingertip)  
- 1st Runner up  
Dean List Award  
- GPA : 3.52
- 2012 Dean List Award  
- GPA : 3.63  
Dean List Award  
- GPA : 3.50

## LANGUAGES



MALAY



ENGLISH  
MUET : Band 4

## EXTRA CURRICULAR ACTIVITIES

- 2017 University Representative for UniKL Student  
Sport Carnival (Futsal)
- 2016 Members of Electrical  
Club, UniKL ICOLE  
Mentor for "BERJAYA"  
program to helps  
student improve pointer
- 2015 Project Manager for  
Community Service at  
Anak Yatim Ar-Raudhah  
Program in Tambun,
- 2015 Members of Medical  
Electronics Club UniKL  
BMI

## WORK EXPERIENCE



ESHA  
ENGINEERING  
CONSULTANT

SEPT - NOV  
2017



Part- time Drafter  
(Electrical & Mechanical)



- Design Electrical Drawing Plan (AutoCAD)
- Cabel Sizing Determination (MS60364)
- Total Connected Load Calculation
- Maximum Demand Calculation



RM1600

JULY - SEPT  
2017

ESHA  
ENGINEERING  
CONSULTANT



Internship  
(Electrical & Mechanical)



- Design Electrical Drawing Plan (AutoCAD)
- Cabel Sizing Determination (MS60364)
- Total Connected Load Calculation
- Maximum Demand Calculation
- Air-Cond Requirement Calculation
- PABX Design
- LV, ELV, Lightning Protection Sys Design
- Cold Water and Sanitary Design
- Fire Fighting System Design
- Lux Calculation
- Bill of Quantities (BQ)
- Site Visit & Meeting



RM 500



PANTAI  
HOSPITAL  
Kuala Lumpur

JAN - MAY  
2014



Internship  
(Biomdical Engineering Department)



- Plan Preventive Maintenance (PPM)
- Electrical Safety Test (IEC60601)
- Repair and Maintain Medical Machine
- Defibrillator, nebulizer, Dialysis Machine, Stringe Pump, ECG Machine, Pulse Oximeter.



RM 300

## STRENGTH

### TIME MANAGMENT

- Punctual
- Systematic and tidy
- Dicipline
- Avoid Procastination

### FIT IN PHYSICAL AND MENTAL

- Able to adept to new working environment
- Able to work in long working hour
- Can work under pressure

### TEAMWORK

- A team player
- Able to build positive working environment

## SIGNIFICANT PROJECT INVOLVEMENT



### HOME AUTOMATION via IOT

# 2017



- Source of power from Solar and TNB
- Has UPS and ATS
- The switch can be controlled by Phone or Physical switch
- Will show the Electrical Usage Live View to the phone

### ECONOMIC DISPATCH by USING PIECEWISE LINEAR INCREMENTAL WITH LINE LOSS (FYP)

# 2017



- 3 Power generation with different type of fuel
- Calculate the most cost-effective generation base on fuel cost function.
- Use langarian Multiplier with lambda iteration.



### PERODUA ECO CHALLENGE

# 2016



- As technical team member
- Create A coollent mechanism to adjust the temperature of a vehicle when park under sunlight.
- Used a thermal electric convert the energy into cool air.

## REFEREES

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