



## **ZAIRUL AZREN BIN MOHD. KAMARUL ZAMAN**

**No. 7, KG. BUKIT KECHIK  
MK. GUAR KEPAYANG  
06700 PENDANG  
KEDAH DARUL AMAN**

**PHONE NUMBER : 016-4982517**

**EMAIL : zairulazren.kz@gmail.com**

### **PERSONAL PARTICULAR**

New IC Number	: 900725-06-5391
Age	: 26 years
Date of Birth	: 25 July 1990
Health	: Healthy
Religion	: Muslim
Nationality	: Malaysian
Race	: Malay
Gender	: Male
Marital Status	: Single

### **CAREER OBJECTIVE**

- To ensure a highly rewarding career, seeking for a job in challenging and healthy work environment where I can utilize my capabilities and knowledge could be efficiently for organizational growth.

### **SUMMARY OF QUALIFICATION**

- Able to design and fabricate filter and antenna using CST software
- Able to make hardware design and build a prototype based on circuit design for miniproject
- Able to manage the connection between Remote Terminal Unit (RTU) to Master Station
- Able to organized and focused in coordinating projects
- Computer literate in MS Word, Excel, Access and Power point
- Skilled and thorough in analyzing problem situations and finding creative solutions for innovation category at Research, Innovation and Invention programmed at UiTM Lendu, Melaka
- Strength in analyzing, researching, organizing, and problem solving of power control technique for minimize Interferences in LTE-A Femtocell
- Skillful in designing web page using Dreamweaver software
- Successful in mastering new skills through hand-on experience during internship

## ACADEMIC BACKGROUND

<b>2012</b> - <b>Present</b>	Qualification	: <b>B.Eng (Hons) Electronics Engineering</b>
	Field of Study	: Engineering (Communication)
	Major	: Communication
	Institute/University	: Universiti Teknologi Mara (UiTM) Shah Alam, Malaysia
	CGPA	: 3.17
	Expected Graduation	: January 2016
<b>2008</b> - <b>2011</b>	Qualification	: <b>Diploma in Electronic Engineering</b>
	Major	: Electronic
	Institute/University	: Politeknik Sultan Abdul Halim Mu'adzam Shah, Jitra, Kedah
	CGPA	: 3.49
<b>2003</b> - <b>2007</b>	Qualification	: <b>Sijil Pelajaran Malaysia</b>
	Major	: Science
	Institute/University	: Sekolah Menengah Kebangsaan Pendang, Kedah

## WORK EXPERIENCE

<b>2015</b>	Company Name	: <b>SCADA Jitra, Distribution Division, TNB</b>
	Position Title	: Practical Trainee
	Period Joined	: January 2015 – March 2015
	Description	: Involved with the engineering work that related to RTUs such as RTU design, its cabling and installation, maintenance and repair, collects data from the remote station and measure the value of current and voltage.
<b>2011</b> - <b>2012</b>	Company Name	: <b>First Solar Malaysia Sdn. Bhd., Kulim, Kedah</b>
	Position Title	: Production Technician
	Period Joined	: December 2011 – February 2012
	Description	: Responsible for the setup and operation of semiconductor coater and the peripheral equipment and perform activities to bring the assigned semiconductor coater from a cold start up to optimum operating parameters within specifications as outlines in the work instructions.
<b>2011</b>	Company Name	: <b>Toyo Memory Technology Sdn. Bhd., Kulim, Kedah</b>
	Position Title	: Production Technician
	Period Joined	: June 2011 – December 2011
	Description	: Responsible to handle troubleshoot, repair and service the plant to optimum manufacturing substrates of hard disk.
<b>2010</b>	Company Name	: <b>Sonic Technology Sdn. Bhd., Alor Setar, Kedah</b>
	Position Title	: Practical Trainee
	Period Joined	: January 2010 – June 2010
	Description	: Involved in maintaining, repairing and testing the electric items and electronic equipments.

## **ACADEMIC PROJECTS**

### **Final Year Projects**

#### **Degree's Final Year Project (UiTM Shah Alam)**

**Project's title: Analyzing of Power Control Technique for Minimize Interferences in LTE-A Femtocell**

- This project is based on the analytical and simulation of power control for minimizing the interferences applying on LTE-A femtocell. Besides, this project only focused on simulation technique of power control and not considered in real environment because LTE-A network is not implemented yet in Malaysia.

#### **Diploma's Final Year Project (Politeknik Sultan Abdul Halim Mu'adzam Shah)**

**Project's title: Smart Vacuum Controller**

- This project was designed to control the movements of vacuum that is used to clean the house by using remote controller (wireless).

### **Other Projects**

#### **Radio Frequency System Design**

**Project's title: Design of a Low Noise Broadband Microwave Amplifier for the use in wireless LAN**

- This project is to design of a low noise broadband microwave amplifier for the use in wireless LAN with frequency chosen is 5GHz.
- This project design is applied using the Agilent Genesys software.

**Project's title: Design of a Spurline Microstrip Bandstop Filter**

- A design of a spurline microstriop bandstop filter to stabilize the amplifier for wireless LAN.
- The Computer Simulation Technology 2011 (CST) Microwave Studio software was fully used to design this bandpass filter.
- The filter design was implemented on FR4 laminates substrate having a relative permittivity of 4.3.

#### **System Design**

**Project's title: Home Automation System**

- This project was designed to control home appliances from remote area to save electrical consumes
- Arduino Mega and Ethernet Shield was used in this project.

## **PERSONAL SKILLS**

- Able to cooperate with others and working as teammates.
- Able to work under pressure and meet tight deadlines.
- Capable to communicate and write in Malay and English.
- Enthuastic and determined.
- Interested to learn new things and experiences.
- Possess the skills to analyse problems, simplify the procedures involve and effective solutions for the problems.
- Responsible for the duties given and able to give a full comitment towards the jobs.
- Understand basic Mandarin language.

## **COMPUTER SKILLS**

- Ms Office
- Electrical Lab Equipments
- Arduino Controller
- C, C++
- Circuit Wizard Software
- Matlab
- Adobe Photoshop and Flash Professional
- Agilent Genesys
- CST Microwave Studio
- Dreamweaver Software

## **LANGUAGES**

- Malay ➤ Good in writing and speaking
- English ➤ Moderate in writing and speaking
- Mandarin ➤ Understand basic Mandarin

## **EXTRACURRICULAR ACTIVITY**

2014	Participated in PreCom –Lab by MASMED, UiTM Shah Alam
2014	Participated in Arduino Workshop Beginner by IEEE
2014	Participated in Sukan Tahunan Antara Fakulti (Badminton) as the team manager
2013	Participated in Badminton Competition under Sukan Tahunan Antara Fakulti (SAF)
2012	Participated in Badminton Competition under Sukan Kolej (SUKOL)
2012	Participated in Badminton Competition under Sukan Tahunan Antara Jabatan

## **ACHIEVEMENT**

<b>YEAR</b>	<b>AWARD</b>
2015	Awarded Dean's Certificate Award for Semester 7 (Bachelor)
2014	Silver medal in IPT Invention Category of Research, Invention, Innovation and Design (RIID 2014) on 'Home Automation System'
2014	Awarded Dean's Certificate Award for Semester 6 (Bachelor)
2014	Awarded Dean's Certificate Award for Semester 4 (Bachelor)
2011	Finished Diploma in Eletronic Engineering
2010	Awarded Department of Head's Certificate Award for Semester 5 (Diploma)
2009	Awarded Department of Head's Certificate Award for Semester 4 (Diploma)
2009	Awarded Department of Head's Certificate Award for Semester 3 (Diploma)
2008	Bronze medal in 'Kejohanan Badminton Tertutup Polimas'

## **REFERENCES**

1. **Dr. Azita Laily Binti Yusof**  
Communication Engineering Coordinator  
Universiti Teknologi MARA (UiTM), Shah Alam  
603-55436015/012-2332041  
azita968@salam.uitm.edu.my
2. **Dr. Nurul Huda Binti Abdul Rahman**  
Academic Advisor,  
Universiti Teknologi MARA (UiTM), Shah Alam  
012-5757416  
Nurulhuda0340@salam.uitm.edu.my