

## Curriculum Vitae



**MOHD EFFENDI AMRAN**

**BAHAGIAN PERKHIDMATAN KEJURUTERAAN  
KEMENTERIAN KESIHATAN MALAYSIA  
ARAS 3 - 7, BLOK E3, KOMPLEKS KERAJAAN PARCEL E, PUTRAJAYA**

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Date of Birth: 9<sup>th</sup> May 1982

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### Personal Particular

<b>Age</b>	: 32 years	<b>Date of Birth</b>	: 9 May 1982
<b>Nationality</b>	: Malaysia	<b>Gender</b>	: Male
<b>Marital Status</b>	: Married	<b>IC No.</b>	: 820509-01-6763

### Education

<b>Master of Engineering</b>	<b>2006 - 2008</b>
<b><i>The University of Hull</i></b>	<b><i>Hull, United Kingdom.</i></b>

(Degree with Honours in the Second Class : Division 1).

Title of Final Year Project Development:

- **The Voice Controlled Mobile Robot** (Departmental Prize (electronics) – Best Final Year Project 2008).

Description of the project; To control the movement of mobile robot by using the human voice command. Using the PIC16F877 microcontroller and Beck SC12 Microprocessor as a main controller of Robotic System and also focused detail on the speech processing technology.

**Higher National Diploma in Electrical Engineering****2003 - 2005*****UNIKL - British Malaysian Institute******Gombak, Malaysia***

(CGPA Awarded – 3.48 / 4.00)

Title of Final Year Project Development:

**- Fuel & Acceleration Simulator Display**

Description of the project; To create a simulation set of the fuel system for mobility by indicating the mileage remaining which inverse proportion with the remaining fuel and also the recommended speed for current situation in digital version. Using PIC programming and Visual Basic as a main controller of the system.

**Certificate in Electrical Domestic & Industry and PW4 Wireman Nil****2000 - 2002*****Institut Kemahiran Mara******Perlis, Malaysia***

CGPA Awarded – 2.89 / 4.00

Awarded a PW4 Wireman Nil License of Competency (Suruhanjaya Tenaga) in line with the achievement of Technology Certificate in 3 phase and single phase Electrical System.

**Sijil Pelajaran Malaysia****1998 - 1999*****Seri Manjung Technical School (Majoring in Electrical & Electronics)******Perak, Malaysia*****Work Experiences**

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**Project Engineer – Bahagian Perkhidmatan Kejuruteraan, KKM****10/2008-Current**

- Responsible in managing, planning, designing, implementing and monitoring of upgrading infrastructure works in existing Government Hospital, Institution and clinics.
- Responsible in managing, planning, implementing and monitoring of new Government Hospital, Institution and clinics.
- Appointed as a leader (Penghulu) and awarded as 'The Best Leadership Skill' in 'Kursus Induksi Umum KKM Bil 2/2009'.
- Promoted to J44 grade in 26 January 2012 to lead 6 junior Engineer.
- Registered as graduate member in Board of Engineer (BEM) and Institutional of Engineer (IEM).
- Qualified as ASEAN Certified Energy Manager in 2013 by Malaysian Green Technology Corporation (Greentech).

**R&D Technician – O.Y.L Technology Shah Alam**

6/2005-08/2006

- Responsible in the design of Electronics Controller Parts including Printed Circuit Board (PCB) for Multi International Air-Condition Company such as National, Hitachi, Acson and York.
- In charged in the Programming development for the main controller (PIC) of the circuit designed.
- Responsible in preparing documents for clients, Prototyping outputs and CNC Development.
- Recommended as Senior Technician level (Non-Executive Grade 1) after 10 months services to lead 8 Technicians and 5 Operators.
- Reason of leaving – Further study in Master Engineering level in UK.

**Site Supervisor / Electrician – Keltrik Engineering Sdn. Bhd.**

06/2002-01/2003

- Responsible in 3 phase and single phase Electrical installation/cabling/wiring works start from the piping (conceal and surface conduit) until the final fixing of electrical installation such as Transformers, Genset, Main switchboard, Main Distribution Board, switches and lightings.
- Main location and responsibility such as Government Buildings, Private Buildings, School Buildings, houses, offices and street lighting.
- Working with underground cables in Taman Warisan Pertanian, Putrajaya, Malaysia
- Reason of leaving – Further study in Higher National Diploma level.

**Construction Labour – Naval Dockyard Sdn. Bhd. Lumut, Perak.**

1999 - 2000

- Involving in Scaffolding (staging) building for Tanjung Pelepas Dock Crane which been built in Naval Dockyard Lumut, Perak, Malaysia.
- Reason of leaving – Further study in Institut Kemahiran Mara.

## **Interest & Achievements**

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### ***Hardware skills***

- Design, testing and handling electronic and electrical components and equipment such as Oscilloscope, main controller boards and etc.
- Excellent in designing Printed Circuit Board (PCB) using Eagle Software and Altium Protel DXP tool.
- Excellent in L.C.D Display interfaces with Microprocessor and PIC Microcontroller.
- Intermediate in handling with PLC Set (e.g. Omron product) for various type of application output.
- Intermediate in working with Microprocessor and its interfaces.
- Intermediate in designing multi Electronics circuits for multi purposes in practical version and trouble shooting development.

### ***Software Skills***

- Intermediate in programming the Peripheral Interfacing Controller (PIC) using Assembly Language and C Language command.
- Intermediate in Programmable Logic Controller (PLC) in various application of Electronic system.
- Very familiar with PICSTART tools, PIC Simulator IDE and Microchip MPASM tools for the PIC Programming purposes.
- Intermediate in VHDL Modelling Language (using VHDL Simili software tools) for Integrated Circuit design.
- Intermediate in Integrated Circuit design using Altera Quartus Software tools.
- Familiar with electrical and electronic software such as AutoCad, Eagle Cadsoft, Electronic workbench, Pspice, and MATLAB.

### ***IT Skills***

- Expertise in computer hardware and Windows software management such as Microsoft Office- Word, Excel, Power Point, Publisher and Project

### ***Leadership skills***

- Former Leader of R&D Technicians (Senior Technician) in previous job at O.Y.L Technology Shah Alam.
- Former Youth Leader of UMNO-HULL Society in Hull, United Kingdom. Leading youth members as a main motivator of society in every events which organized by the Club.
- Former Social Secretary of Malaysian Student Association in the University of Hull, United Kingdom. Very Confident in communicate among members of society and dedicate to role given.
- Team Leader for English day and Business Management technique exhibition in Higher National Diploma level.
- Former Captain of 5 aside Hull Futsal Team which fully sponsored by UMNO-HULL Society.

***Sports*** Actively involved in Football and Futsal Games. Presenting state in Football and winning the Third place of MSSM cup in 1997.

## References

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### **Tn. Hj. Md. Jalal B. Bongkik**

Timbalan Pengarah Kanan (Perkhidmatan)

Bahagian Perkhidmatan Kejuruteraan,

Kementerian Kesihatan Malaysia,

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### **En. Yahaya Bin Saad**

Timbalan Pengarah (Seksyen Implementasi Projek)

Bahagian Perkhidmatan Kejuruteraan,

Kementerian Kesihatan Malaysia,

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### **Eur Ing Antony J Wilkinson**

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