TIMOTHY UNTAN LUAT

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EDUCATION BACKGROUND

1. Universiti Teknologi MARA (UiTM) Cawangan Pulau Pinang, Kampus Permatang Pauh

Qualification	: Bachelor of Engineering (Hons.)
Field of Study	: Electrical and Electronics Engineering
Specialization	: Computer
Duration of Study	: 2013 to 2016
Latest CGPA	: 3.35 out of 4.00

2. Universiti Teknologi MARA (UiTM) Cawangan Sarawak, Kampus Kota Samarahan K1

Qualification	: Diploma
Field of Study	: Electrical Engineering
Major	: Electronics
Duration of Study	: 2009 to 2012
Latest CGPA	: 2.81 out of 4.00

WORK EXPERIENCE

Shorefield Sdn. Bhd.
SL1M Trainee under Talent Suites Sdn. Bhd. August to December 2016

- Responsible for liaising with Strategic Planning Department to update Bill of Quantity for material purchasing required.
- Study existing electrical network power that needed to be relocated for the project of Pan Borneo Highway under LBU (Lebuhraya Borneo Utara)
- Compare and liaise the existing network power provided from consultant with survey data project.
- Going to the on-site observation for updating the progress of the project.

SIRIM QAS International Sdn. Bhd. (Sarawak Branch)
Trainee (Internship) 6 July – 11 September 2015

- Tested the appliances received from the applicant or company based on the safety standards.
- Managed to work under team members to do inspection, testing and verification of testing the household items.
- Experienced in creating a technical report of the tested appliances for endorsement purposes.
- Solved technical problem based on the appliances that were not comply with the safety standards.

CAMPUS INVOLVEMENT/ACCOMPLISHMENT

1. **Mini Competition Young Invention, Innovation and Design (YIID)**
   Universiti Teknologi MARA (UiTM) Cawangan Sarawak, Kampus Kota Samarahan.
   Date: 09 October 2010
   Project: “Stunfa”
   Award: Silver medal (Invention)

   - Designed and developed a tool that combines a stun gun and a tonfa weapon by implementing a boost circuit from 5V to nearly 2000V, a very high voltage output enough to paralyze any living person.

2. **Program Latihan Transformasi Negara Pemimpin Mahasiswa UiTM**
   Anjuran Biro Tatanegara, Jabatan Perdana Menteri.
   Date: 27 – 29 November 2014

   - Involved in an activity to build soft skills of a better leadership. These includes some practices to lead an activity or program, as well as the communication skills towards the audience and team members.

3. **Penang Invention, Innovation and Design (PIID) 2015**
   Universiti Teknologi MARA (UiTM) Cawangan Pulau Pinang, Kampus Permatang Pauh.
   Date: 30 November 2015
   Project: “Development of Smart Home Security System using Raspberry Pi and Arduino as Embedded System Linked with LAN”
   Award: Bronze medal (Innovation)

   - Develop a smart home system using the existing embedded system such as Raspberry Pi 2 and Arduino UNO that are connected via Internet.
   - Implemented the theory of Internet of Things (IoT) that can be connected via smart phone to the smart home system. This includes the implementation of HTML and Javascript to produce the web application for smart phone, and a Python language to embed the command from the smart phone to Raspberry Pi that are connected to the wiring system. Both elements are connected wirelessly to the internet.

FINAL YEAR PROJECT

Development of Image Processing Based Parking Space Management

Summary: This project introduces on the implementation of image processing for the development of smart parking management system. It involves the manipulation of image processing techniques that enables the system to detect the availability of parking space via live camera. On the project development, a single camera can capture about 4 to 5 parking space that can detect the parking space independently. The image processing tools used during the project is by using OpenCV software that compatibles with both Windows operating system and Linux operating system. A Python programming language is needed to build the program of detecting the availability of parking space. A hardware implementation was done using the same techniques of image processing. This was installed independently to Raspberry Pi hardware that can be connected to the screen monitor to observe the parking space in real time.

EXTRA-CURRICULAR ACTIVITIES

Young Catholic Undergraduates (YCU)

Position: Creative Ministry 2010 - 2012

- Prepared any creativity or multimedia-related projects to be presented during the main activity or program hosted by Young Catholic Undergraduates (YCU) in a campus.

LANGUAGE PROFICIENCY *(0 = Worst; 10 = Excellent)*

Language	Read	Write
Bahasa Malaysia	10	10
English	8	8
Iban	9	9
Japanese Language	4	4

COMPUTER SKILLS *(0 = Worst; 10 = Excellent)*

Skills	Rate
Microsoft Office Applications (Excel, Word, PowerPoint)	9
HTML Language	8
MATLAB Language	8
OrCAD Pspice	7
Python v2 Language	7
Python v3 Language	7