

# Muhamad Haikal bin Rusli

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## OBJECTIVE

- Interested to apply a job as a fresh graduate electrical engineer and secure a position with the company.
- To join an organization where my knowledge of electrical engineering can be best utilized and where I can get good career growth hence, contributing to achieve company goals.

## EDUCATION

### **Bachelor Degree of Electrical Engineering (Hons.) (Power Systems)**

Universiti Malaysia Pahang  
Graduated July 2016

### **Foundation in Engineering**

Universiti Teknologi Mara, Puncak Alam  
Graduated 2012 Result: CGPA 3.22

### **Sijil Pelajaran Malaysia**

SM Sains Raja Tun Azlan Shah, Taiping Perak  
Graduated 2010 Result: 6A 4B

## EXPERIENCE

### **SCOMI RAIL BHD (June 2015-September 2015)**

**POSITION:** Industrial trainee (Testing & Commissioning Department)

#### **JOB DISCRPTION:-**

- Studied, researched and analyzed part and operation of the train.
- Managed to conduct continuity test for train equipment and train wiring system.
- Run and check the functionality part of the train such as active cab, cabin and passenger door circuit, connection of 110V DC into MCB, DC converter and 24V DC supply line by referring to the electrical circuit drawing.
- Successfully completed documentation and report for future train test report.
- Conducted 5S activity every week by clean up working space area.

## SKILLS

- 1) Microsoft Office
- 2) PLC application
- 3) Fritzing, Proteus, Circuit Wizard, ETAP (circuit design software)
- 4) C programming
- 5) AutoCAD

## LANGUAGES

- 1) Bahasa Malaysia
- 2) English

## FINAL YEAR PROJECT

### Development of portable microcontroller based DC water pump

- 1) Usage of DC water pump to pump out the water.
- 2) Adjustable strength of water pressure by controlling speed of DC motor.
- 3) Implemented Pulse width modulation technique (PWM) to control the speed of DC motor.
- 4) Arduino microcontroller is chose and studied to generate PWM.
- 5) DC batteries added to the system as power source for Arduino and DC pump.
- 6) Managed to make several analysis such as proving the generation of PWM, rate of liquid spray with time and voltage drop at DC motor water pump.

## EXTRA CURRICULUR ACTIVITIES

- 1) **EXCO, EKSPLORASI KEUSAHAWANAN@YOGYAKARTA, 2014/2015**
  - Involve in organizing, planning and executing the programs.
  - Setting up a team to find funding to support the programs from corporate sectors.
- 2) **EXCO, KEM PEMANTAPAN KEUSAHAWANAN (KPK), 2014/2015**
  - Organizing team members and facilitators to run the program.
  - Promoting events and inviting participants from all clubs to join the events.
- 3) **SUKARELAWAN UMP KAMPUS PEKAN PADA 13 JAN 2015, 2014/2015**
  - Gathering and classifying donated items and prepared equipment needs for charity work.
  - Involve in doing charity work cleaning up schools and surau near Pekan, Pahang that was infected by flood.
- 4) **KARNIVAL KEUSAHAWANAN TECHNOPRENEURSHIP 2014, 2014/2015**
  - Presenting a business plan for the program and get approval from Keusahawanan Department.
  - Setting up a booth at the karnival keusahawanan.
  - Presenting outcome of the program and send report.
- 5) **PENDAKIAN GUNUNG YONG BELAR, CAMERON HIGHLAND, 2013/2014**
  - Active involvement in hiking and involved in medical assistance team during the expedition.
- 6) **BERBASIKAL IPD PEKAN & UMP SEMPENA LE-TOUR DE LANGKAWI, 2014**
  - Cycling up to 50km around Pekan Pahang in conjunction with other party such as IPD and many more.
- 7) **KARNIVAL SUKAN UMP PEKAN, 2013/2014**
  - Took part in various sports activities such as futsal tournament and paintball tournament.
- 8) **PROGRAM CEMERLANG UMP, 2012/2013**
  - Took part in a seminar on how to develop potential skills.

## REFERENCE

### DR. RAMDAN BIN RAZALI

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