

## MUHAMMAD FIRDAUS BIN ZAINUDIN

Bachelor of Engineering (Hons) Mechanical (*Manufacturing Technology*)  
Universiti Teknologi PETRONAS  
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### SUMMARY

I am **physically** and **mentally fit** for fieldworks, a **fast learner**, **adaptable** to **environment**, **willing to travel** and a tolerable **team leader** that looks for the opportunity to contribute positively towards the success of organizations. To seek for job opportunities in both **technical and hands on skills** related to **Mechanical Engineering** discipline in industry.

### EDUCATION BACKGROUND

Bachelor of Engineering (Mechanical)	Jan 2014 – Dec 2017	CGPA : 2.95
MARA Junior Science College Felda (MRSMF)	2011 - 2012	SPM : 9 A's

### INDUSTRIAL EXPOSURE

**Nur Ahfa Sdn Bhd** : Instrument Technician – Freelance (April 17 – May 17)

Experience : TNB Major Turn Around

- Hands-on completing tubing works for hazardous gas from turbine to analyser
- Do piping works for instrument air

**Analytical Solution & Engineering** : Project and Service Department – Intern (Sept 16 – April 17)

Experience :

- Hands-on preparing and maintenance gas analyser and the sampling system (Tubing, valve, piping, oxygen analyser, oil in water analyser, hazardous gas analyser)
- Oil and gas plant shut down or turn around as vendor for replacement of analyser
- In charged for project planning, purchasing and documentation
- Come out with Process and Instrument Drawing (PNID) based on customer request for sampling system
- Practicing HSE in daily working life (Petronas Safety Induction, PPE, JSA, JHA)

### AWARDS AND ACHIEVEMENT

Kejohanan Pencak Silat Antarabangsa Piala TPM 07 (Rep Malaysia)	Gold
Kejohanan Pencak Silat Antarabangsa Piala TPM 08 (Rep UTP)	Gold
SUKMA Sarawak 2016	Silver
Kejohanan Pencak Silat 5x5 Terbuka Perak	Gold
Kejohanan Pencak Silat Pendekar Seabad	Silver
Kejohanan Gayong Kebangsaan	Silver
Festival Kombat Antarabangsa (FesKom)	Bronze

### PROJECT INVOLVEMENT

Year	Project
2017	1. Sample Cooler Skid for <b>Petronas Penapisan Melaka</b> 2. Oxygen analyser installation in <b>Allnex Malaysia</b> 3. Tubing works installation in <b>TNB Port Dickson</b>

4. Combustion vessel fabrication for education purpose
  5. The influence of nanoparticles concentration on CuO-Fe<sub>3</sub>O<sub>4</sub> hybrid nanofluids in enhanced oil recovery (*Final Year Project*)
  6. Designed new luxurious car using **Autodesk Inventor** (*Mechanical System Design*)
  7. Designed a safe and space friendly motorcycle parking (*Project Design and Development*)
  8. Analysis of fluid flow in pipe using **ANSYS** (*Computer Aided Engineering*)
- 2016
1. Designed Seed feeding tray using **CATIA V5** (*Mechanical Engineering Design*)
  2. Designed a Sea Dustbin (*Engineering Team Project*)
  3. Missile Attitude Controller using **Simulink in Matlab** (*Control System*)
  4. Material properties determined using **ASTM standard** (*Engineering Materials*)
- 2015
1. Water storage tank piping designed for Tronoh citizen (*Fluids Mechanic*)
- 2014
1. **Autocad** designed for Micro Wind Turbine (*Engineering Drawing*)

## EXTRA-CURRICULAR

<i><b>Post Held</b></i>	<i><b>Name of Events</b></i>
Members	- IMeche (Student Affiliate)
HOD CnP	- UTP Sport Carnival 2015
CnP Member	- UTP Minggu Aluan Siswa
Project Manager	- Friendly match with <b>UiTM, Navy, SMK Permaisuri Bainun and UTP</b>
Participants	- UNGGAS community service to help the homeless
President	- UTP Pencak Silat Team
Camp Commandant	- Kem Anak Soleh Sekolah Kebangsaan Sri Iskandar
	- Khemah Ibadah 2015 and 2017
	- Kem Tunas Cemerlang
Facilitator	- Tunas Cemerlang
	- School of Tahfiz Project collaboration with AJAQ

## SKILLS

<i><b>Computer</b></i>	<i><b>Technical</b></i>	<i><b>Languages</b></i>
Catia V5R18	CNC Milling and Lathe	Malay
AutoCAD	Conventional Milling and Lathe	English
ADAMS	Welding	Mandarin
Matlab	Metal Grinding	
ANSYS	Non-Destructive Test	
Microsoft Suites	Hardness test	

## REFERENCES

<b>Dr Mazli bin Mustapha</b> Lecturer, Mechanical Engineering Department, Universiti Teknologi Petronas +605 – 3687208 <a href="mailto:mazli.mustapha@utp.edu.com.my">mazli.mustapha@utp.edu.com.my</a>	<b>Ir. Dr. Mohd Zulhilmi Paiz bin Ismadi</b> Lecturer, Chartered Mechanical Engineering, Universiti Teknologi Petronas +605 – 3687210 <a href="mailto:zulhilmi.ismadi@utp.edu.com.my">zulhilmi.ismadi@utp.edu.com.my</a>
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