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SUMMARY

A 3rd Year Chemical Engineering student who is highly responsible with good discipline and motivated to learn and excel in chemical engineering related industry. Eager to contribute to team success through hard work and excellent in organizational skills.

EDUCATION

UNIVERSITI TEKNOLOGI PETRONAS (2018 – PRESENT)

Bachelor of Chemical Engineering with Honours

- CGPA: 3.65/4.0 - Dean's List

UNIVERSITI TEKNOLOGI PETRONAS (2017 – 2018)

Foundation of Engineering

- CGPA: 3.85/4.0 - Dean's List

SMK (P) ST. GEORGE (2012 – 2016)

- SPM: 7A+ 2A
 - PT3: 10A
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RESEARCH PROJECTS

ENGINEERING TEAM PROJECT (2020)

- Worked in a team of 5 between 2nd year engineering students in UTP to develop design solution for solving societal issue.
- Initiated 'SANIDAF' which is 3-1 Smart Sanitizing Device Alma Mater Friendly, a multifunction device to be used in schools during the Covid-19 pandemic.
- Presented the details of the simulated design, animation video and e-poster to supervisor.

PROCESS INSTRUMENTATION AND CONTROL PROJECT (2020)

- Constructed a Simulink model and designed controllers using different methods in a team of 4 between chemical engineering students in UTP.
- Performed closed loop studies with all controllers designed for servo and regulator problems by using MATLAB.

SEPARATION PROCESS II PROJECT (2020)

- Designed an adsorption column for Hydrogen Enrichment Unit to produce 30,000 tonnes/year of Hydrogen.
- Decided the strategy to achieve 99.9% of Hydrogen production.

SEPARATION PROCESS I & THERMODYNAMICS II PROJECT (2019)

- Drew the process flow diagram of methanol production from natural gases by using Microsoft Visio in a team of 5 chemical engineering students.
- Simulated the process flow using Aspen HYSYS and PETRONAS iCON and achieved production of 1,000,000,000 kg methanol per year.

THERMODYNAMICS I & PROCESS HEAT TRANSFER PROJECT (2019)

- Calculated the amount of heat transfer required to reduce 70% of the reactor output when 'caterpillar drive' is activated.
- Determined the amount of power generated with PWR data and submarine propulsion when surfaced and submerged.
- Gave a presentation on the detailed calculation to lecturer.

FLUID MECHANICS & PRINCIPLES OF CHEMICAL ENGINEERING PROJECT (2018)

- Collaborated with 4 chemical engineering students in UTP in a team.
 - Built a DIY hydraulic jack with recyclable items by applying the chemical reaction between yeast and 6% Hydrogen Peroxide.
 - Produced a stable, economical, safe and efficient hydraulic system prototype without any leakage.
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EXTRA-CURRICULAR ACTIVITIES & INVOLVEMENT	ENSEMBLE OF GAMELAN (2018)	
	<i>Assistant Head of Department of Prizes and Souvenirs Department</i>	
	<ul style="list-style-type: none"> Designed and prepared handmade souvenirs to 200 performers from all around Malaysia. Prepared certificates and prizes for both 250 committees and performers. 	
	MALAYSIA THROUGH THE LENS (2020)	
	<i>Committee of Social Welfare and Sponsorship Department</i>	
ORGANIZATIONS	<ul style="list-style-type: none"> Successfully received support from the Malaysia Tourism Promotion Board. Conducted various online contests and obtained more than 2000 engagements. 	
	UTP PANTHERS CUP 9'S (2020)	
	<i>Committee of Ceremony and Protocol Department</i>	
	<ul style="list-style-type: none"> In charge of being the master of ceremonies. Printed certificates for 400 committees and participants from 20 universities in Malaysia. 	
	STUDENT INTEGRITY CAMPAIGN UTP (2018 – 2019)	
ACHIEVEMENTS	<i>Committee of Logistics Department</i>	
	<ul style="list-style-type: none"> Promoted awareness among all UTP students regarding academic and non-academic integrity. Ensured the flow of multiple pre-events and the main event occurred smoothly through preparation of logistical components. 	
	FOUNDATION SPORTS DAY UTP (2018)	
	<i>Committee of Food and Beverage Department</i>	
	<ul style="list-style-type: none"> Planned and arranged food and beverages for 150 participants and committees. Supervised the registration of 120 participants. 	
CERTIFICATIONS	INSTITUTION OF CHEMICAL ENGINEERS UTP-SC (2019 - PRESENT)	
	<i>Committee of Academic and Career Enhancement Department</i>	
	GO GREEN MOVEMENT UTP (2018 - PRESENT)	
	<i>Committee of Event Management Department</i>	
	STUDENT SUPPORT ADVOCACY PARTNER UTP (2018 - PRESENT)	
SKILLS	<i>Committee of Media Department</i>	
	<ul style="list-style-type: none"> PETRONAS Education Sponsorship Programme Recipient Dean's List Awards (2018 – 2020, 6 semesters) 	
	PETRONAS READINESS FOR EMPLOYMENT PROGRAM (PREP)	
	<i>Induction Outward Bound School Malaysia (2017)</i>	
	PETRONAS PATRIOT AMBASSADOR	
REFERENCES	<i>Biro Tatanegara Jabatan Perdana Menteri (2018)</i>	
	MANAGING YOUR EMOTIONAL INTELLIGENCE (MYEQ) WORKSHOP	
	<i>Turning Point Integrated Wellness (2019)</i>	
	PROGRAMMING LANGUAGES	
	<ul style="list-style-type: none"> Intermediate: Phyton, MATLAB, ASPEN Hysys, PETRONAS iCON Beginner: HTML, CSS, JavaScript 	
	SOFTWARE	
	<ul style="list-style-type: none"> Expert: Microsoft Office/Powerpoint/Excel Intermediate: Microsoft Visio 	
	LANGUAGES	
	<ul style="list-style-type: none"> Excellent in Writing and Speaking: English and Bahasa Malaysia 	
	DR CHEW THIAM LENG	AP DR SURIATI SUFIAN
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