FATIN NUR AININA BINTI AMIRUDDIN

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SUMMARY

I am under graduate in Mechanical Engineering with Honors, seeking the opportunity career in mechanical engineering field with the ability of critical thinking in engineering and management knowledge, technical skills and experiences to make impactful contributions in your organization.

RELEVENT EXPERIENCES

TRAINEE

MALAKOFF CORPORATION BERHAD – Lumut, Perak (July, 2015 – September, 2015)

Mechanical Department

- The replacement of High Pressure (HP) gauge glass B13.
  - The maintenance process can be classified as predictive maintenance due to the gauge is in irregular state causes by wear gasket and poor condition of glasses.
  - Hence, both gasket and glass required the new replacement.
- Steam Turbine (ST-14) Air Removal Pump Maintenance.
  - The maintenance is required due to air removal pump motor having some error occurred. Hence, the motor required inspection.
- The replacement of bypass control valve at Gas Turbine (GT13) High Pressure (HP).
  - The replacement of HP bypass control valve required inspection due to irrelevant working flow of the pneumatic actuator.
- Lube oil replacement at trash rake.
  - One of the regular maintenance activities where the replacement of lube oil took part in order to prevent major damage of the gear mechanism in trash rake system.
- The maintenance of oil purifier at Steam Turbine (ST 34).
  - The function of oil purifier is to remove significantly the water, dirt and unusable gasses contain in lube oil during steam turbine operation.
  - The maintenance activities due to oil purifier are related to removal oil in the container, cleanser the component and tighten bold and nut accordingly in order to avoid the vibration that will affect the efficiency of purifier.

Maintenance, Repairs and Overhaul (MRO) Department

- Preparation of paperwork and MRO report
  - Re-arrange and understand the test report due to metallurgical and hardness measurement.
  - Understand the paper work agreement between the Teknik Janakuasa Sdn Bhd and Alstom.
  - Understand the lifting and plant document.
  - Understand the document of specification in determination of clearance and limits.

UNDER GRADUATE PROJECT

PHYSICAL PROPERTIES OF BIODIESEL PRODUCE USING CORN OIL AS FEEDSTOCK (September, 2015- June, 2016)

- Objective
  - To investigate biodiesel production by using corn oil as input.
  - To study the mechanical properties of the resultant biodiesel.
  - To compare biodiesel product with biodiesel from Jetropha oil and using American Standard Test and Material (ASTM) specification.
- Summary of the project

  The main concept of biodiesel project is alternative way to reduce the petrol-diesel consumption due the effect of the global warming and environmental pollution. Through the knowledge transfer grant of Ministry of High Education (MOHE) has fabricated a plant to produce biodiesel by using wasted cooking oil and Jetropha oil as feedstock. This project will utilize the corn oil as an input to produce biodiesel and prepared the similar test according to Jetropha oil. Besides, the properties of biodiesel produce also been compared to the ASTM standard of biodiesel.

MANUFACTURING CONTROL DESIGN PROJECT

ROBOTIC ROTARY MOVEMENT SYSTEM (February, 2016 – June, 2016)

- Objective
  - To design pneumatic robotic system by using rotational movement.
  - To implement PLC programming system to the machine.
- Summary of the project

  The project is related to design the pneumatic robotic system by using rotational movement in order to minimize the consumption of main power. The analysis of movement included motion diagram, displacement diagram, pneumatic system and ladder diagram.
- Software used:
  - Automation studio
  - PLC programming (OMRON)

EDUCATIONS/ QUALIFICATION

BACHELOR DEGREE IN MECHANICAL ENGINEERING: MECHANICAL ENGINEERING (GRED: 2.92/4.00)
Universiti Tun Hussien Onn Malaysia – Parit Raja, Johor (Graduate: 10 October 2016)

LANGUAGES

MALAY
Level of proficiency: Fluent

ENGLISH
Level of proficiency: Fluent

COMPUTER SKILLS

Microsoft office: Intermidiate

Autocad: Intermidiate
Solidwork: Intermidiate

Automation Studio:Intermidiate
PLCProgramming:Intermidiate

EXTRA-CURRICULAR ACTIVITIES

No	Participation/ Achievement	Position/ Qualification	Level
1	International Autism Conference	Committee	International
2	I-Mechyfest 2014	Committee	University
3	Mechyfest 2013	Committee	University
4	Liga Sukan FKMP 2013	Participant	University
5	Manufacturing Brigade (Hari Keusahawanan SK Seri Sabak Uni)	Committee	University
6	Manufacturing Brigade	Committee	University

EXTRA INFORMATION

Driving licenses: D and B2

REFERENCES

Name: Prof. Dr. Sulaiman Bin Haji Hasan
Address: Faculty of Mechanical and Manufacturing Engineering, UTHM, 86400 Johor, Johor Darul Takzim
Contact Number: 013-408858
Designation: VK6- Professor
(Final Year Project Supervisor)

Name: Dr. Musli Bin Mohammad
Address: Faculty of Mechanical and Manufacturing Engineering, UTHM, 86400 Johor, Johor Darul Takzim
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Designation: DS52-Senior Lecturer
(Academic Adviser)