Muhd Adam Fahim

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**Education**

1. **Universiti Teknologi Malaysia (UTM) – CGPA: 3.75 (2021)**

*Bachelor of Mechanical Engineering*

*Dean’s Award with First-Class Honours*

1. **Kolej Matrikulasi Melaka (2017)**

*Science Course (Modul 1)*

1. **Maktab Rendah Sains Mara Tun Ghafar Baba (2015)**

*Sijil Pelajaran Malaysia (SPM)*

**Work Experience**

1. **Plus Star Sdn Bhd** **(November 2021-Present)**

*Mechanical Engineer (PROTÉGÉ)*

* 1. Perform routine maintenance on pump assembly and replaced impeller, shaft, and installed the cutterhead.
  2. Conduct regular preventive maintenance and repairs of centrifugal pumps by replacing gaskets, mechanical seals and performed non-destructive tests including laser alignment.
  3. Ensure zero downtime as all the machineries are well maintained and follow the safety guidelines.
  4. Manage to implement and ensuring all work are within the guideline of ISO 9001:2015.
  5. Supervise and ensured that all the manufacturing processes from receiving raw materials to delivering finished goods products conform to the government regulatory, HACCP & GHP Standards.

**Achievements**

1. Successfully designed and fabricated a frame to support the suction part of an autoloader to ensure correct amount of material gets into extruder.
2. Reduced the 25% cost of production by installing detection sensor system to help monitor the material requirement level inside hopper.
3. **Juara Sdn Bhd (March 2021- July 2021) (5 months)**

*Mechanical and Maintenance Intern*

* 1. Analysed the model performance of the neural network and then compared the results obtained with Response Surface Methodology.
  2. Monitored spare parts and prepared an inventory in and out form which helps to lower the cost and speed up the fulfillment of inventory.
  3. Conducted various laboratory experiments such as Tensile test, Powder Level test, Corrosion test, Titration.
  4. Designed the manual transmission components, such as gears, shafts, and bearings, using the machine design equation.
  5. Performed inspections of purchased materials, parts, subassemblies, or finished projects according to well-defined standards using physical, sample, measurements, and other customer specifications.

**Achievements**

1. Successfully improved the Standard Operating Procedure (SOP) for reporting issue which reduced the risk of miscommunication and failure to comply with user's requirement.
2. Discovered some minor calculation errors for the fuel consumption rate of the ship in previous paperwork, which helped to reduce data inaccuracy after correction.

**Core Competencies**

**Project Management**

* Planning
* Budgeting
* Data Analytics

**Engineering**

* Matlab
* AutoCAD
* Solidworks

**Computer Skills**

* Microsoft Word
* Microsoft Excel
* Microsoft PowerPoint

**Highlighted Projects**

1. **Pre-Leaching Tank Sludge Filtration System (2020)**
   1. Compared and proposed the best filtration system that can reduce water changing frequency

and sludge accumulation, estimated to save around RM2,000 per month.

1. **Glove Experiment Improvement (2019)**
   1. Proposed on using a new type of glove beading roller for a longer lifespan and reduce the production

of lower quality gloves that can save about RM1,400 per month.

1. **Exploration and Engineering Project** **(2018)**
   1. Directed the group in evaluating and proposing exploration prospects including technical and

commercial evaluation of a block consisting of two wells.

**Achievements**

**Academic and Co-curricular Awards**

1. Dean's List Award for 7 Semester **(2020)**
2. Final Year Project (Gold Award), (Best Presenter) and (Best Presentation Deck) **(2020)**
3. Mechanical Engineering Design Project - (Best Performer) **(2019)**
4. First place Roller Coaster prototype for Einstein Brains Competition for Math and Science Week **(2019)**
5. Runner-up Business Competition Innovation UTM **(2018)**

**Leaderships**

1. **SEAN Student Forum, Assistant Head of Collaboration and Sponsorship (2020)**
2. Negotiated with various prestigious funders, start-up company, GLC and MNC companies succeeding sponsorships amounting to RM70,500.
3. Prepared proposal, generated quality leads and collaborated with the various shareholder.
4. **Engineering Business Talk, Committee of Marketing (2019)**
   1. Successfully achieved highest personal record among the team members in obtaining sales with

total amount of RM8,500.00.

* 1. Managed social media marketing campaign and designed banner, bunting, and brochure to get leads.

1. **Kolej Kasturi Representative Committee, Vice President (2018)**
   1. Structured the college's student development program and taking command of the establishment

of 4 action councils with various tasks to support the 30-member committee.

* 1. Successfully organized more than 8 various events in 2 years and empowering more than 500 students.

**Special Certificates & Courses**

**Certificates**

1. BEM Certificate of Registration of Graduate Engineer
2. NIOSH Authorised Gas Tester and Entry Supervisor for Confined Space (AGTES)
3. NIOSH Authorised Entrant and Standby Person for Confined Space (AESP)
4. CIDB Safety Induction Construction Workers (SICW)
5. UTM Professional Certificate ISO 9001:2015

**References will be given upon request**