

# FADIA DYNİ ZAABA

Research Assistant

+6010-9310902  
fadia.dyni@gmail.com  
[LinkedIn | Fadia Zaaba](#)  
Kuantan, Pahang, 25200 Malaysia  
(Registered with BEM)

## PROFESSIONAL SUMMARY

---

Masters in Renewable Energy Engineering seeking a Junior Data Analyst position in engineering and technical field. Leverage R&D and processing engineering (food waste digestion), strong analytical skills (research design and interpretation), and problem-solving honed from civil engineering experience. Open to learning and passionate about data for global impact.

## PERSONAL PROJECTS

---

Currently engaged in personal data analytics projects using public datasets, where I am enhancing my data cleaning and preprocessing skills with MySQL while developing proficiency in data visualization using Power BI and Tableau. I am navigating the complexities of data preparation, transformation, and integration and improving analytical skills to present data insights interpreted and effectively.

### MAPPING HUNGER: A DATA-DRIVEN LOOK AT GLOBAL UNDERNOURISHMENT

**Goal:** To raise awareness about the issue and track progress towards achieving the UN's goal of ending hunger by 2030.

**Description:** The project focuses on analyzing data related to global hunger and undernourishment. Data analysts can identify areas needing attention and inform strategies to improve food security by analyzing factors like calorie intake and regional hunger rates.

**Skills:** Data cleaning, data exploration, data analysis, hypotheses testing, data visualization

### PREDICTING HEART DISEASE RISK WITH PATIENT ATTRIBUTES

**Goal:** To predict heart disease presence through analysis of various patient attributes.

**Description:** The project predicts risk using machine learning on patient data (age, blood pressure) to identify key risk factors and improve early detection.

**Skills:** Data cleaning, exploratory data analysis (EDA), data communication, and feature engineering.

## TECH STACK & SKILLS

---

**Language:** SQL

**Framework:** Pandas

**Tools:** Excel, Powerpoint, MySQL, AutoCAD, STAAD Pro, ESTEEM

**Platform:** Jupyter Notebook

**Soft skills:** Analytical thinking, Problem-solving, Attention to detail, Project management, Communication, Data interpretation, Teamwork

## WORK EXPERIENCE

---

### RESEARCH ASSISTANT - UNITEN / Bangi, Selangor - Jan 2021 – December 2023

- Led research project on converting food waste into bioenergy via anaerobic digestion, managing all stages from extensive literature review to data analysis and interpretation.
- Utilised Automated Methane Potential Test System (AMPTS II) to conduct laboratory experiments, collecting and analyzing data to assess the biogas potential of food waste.
- Assist in administrative tasks related to the research project, including ordering supplies, coordinating meetings, and managing schedules.
- Authored draft journal articles summarizing research findings and incorporating supervisor feedback for publication.

- Collaborated with PhD students and a team of experts, leveraging diverse perspectives to refine research methodology and data analysis strategies.

## **SITE ENGINEER CUM QA/QC – TKM Resources Sdn Bhd / Kepong, Kuala Lumpur - Feb 2018 – Aug 2019**

- Developed and implemented the Project Quality Plan, ensuring adherence to specifications and standards throughout the project lifecycle.
- Reviewed the quality of all materials delivered to the site to ensure they comply with project specifications and approved standards set by the consultant.
- Generated comprehensive quality reports for stakeholders, including detailed data on progress, issues encountered (defective, outstanding, or delayed works), and corrective actions taken.
- Coordinate with the consultant's representative and site in charge, and conduct regular inspections and audits of construction activities, materials, and installations to verify compliance with project specifications and quality standards.

## **CIVIL & STRUCTURAL ENGINEER - PMC Sdn Bhd / Petaling Jaya, Selangor – Sept 2016 – Feb 2018**

- Analyzed and interpreted engineering data to design and prepare infrastructure plans, drawings, and reports for authority submissions (earthwork, road & drainage, etc.).
- Leveraged engineering software (AutoCAD, ESTEEM, STAAD Pro) to develop and analyze structural models for buildings and infrastructure, ensuring stability and compliance with standards.
- Translated complex engineering data into clear reports and documentation for project stakeholders and approvals.
- Collaborated effectively with multidisciplinary teams (civil, electrical, and mechanical engineers) to integrate structural designs seamlessly with overall project requirements.
- Presented engineering solutions and findings during design reviews, site meetings, and client consultations.

## **EDUCATION BACKGROUND**

---

<b>2021 – 2023</b>	<b>PhD Research Assistant – Universiti Tenaga Nasional (UNITEN)</b>
<b>2019 – 2020</b>	<b>MSc Renewable Energy Engineering – Heriot-Watt University (Malaysia Campus)</b>
<b>2012 – 2016</b>	<b>Bachelor of Engineering (HONS) Civil Engineering – Universiti Teknologi PETRONAS (UTP)</b>
<b>2011 – 2012</b>	<b>Pahang Technical Matriculation</b>

## **CERTIFICATES**

---

Google Data Analytics  
[View Certificate](#)

## **INTERESTS**

---

- Sports and physical abilities
- Reading and learning
- Outdoor activities
- Creative pursuits