# FADIA DYNI ZAABA

**Research Assistant**

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**(Registered with BEM)**

## PROFESSIONAL SUMMARY

Masters in Renewable Energy Engineering with three years of research and data analysis experience. Seeking a Junior Data Analyst position to leverage analytical skills, SQL and data visualisation knowledge and a passion for solving complex problems through data insights. Experienced in Research & Development and civil engineering projects and making global impact through data.

## 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:** Raise awareness about global hunger and track progress towards the UN's goal of ending hunger by 2030
**Description:** Analyze global hunger data, identifying areas needing attention and informing strategies to improve food security. Utilize Python and SQL for data cleaning and Tableau for visualisation.
**Skills:** Data cleaning, data exploration, data analysis, hypotheses testing, data visualization

### PREDICTING HEART DISEASE RISK WITH PATIENT ATTRIBUTES

**Goal:** Predict heart disease presence through analysis of patients' 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, Python
**Tools:** Pandas, Tableau, Power BI
**Tools:** Excel, Powerpoint, Jupyter Notebook, 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

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|---|---|
| **2019 – 2020** | **MSc Renewable Energy Engineering –** Heriot-Watt University (Malaysia Campus) |
| | Relevant Coursework: Advanced Renewable Energy Systems, Engineering Economics |
| | Thesis: Developing Eco Charcoal for Jakun Rural Community of Tasik Chini, Pahang |
| **2012 – 2016** | **Bachelor of Engineering (HONS) Civil Engineering –** Universiti Teknologi PETRONAS (UTP) |
| | Relevant Coursework: Probability & Statistics, Structural Analysis |
| **2011 – 2012** | **Pahang Technical Matriculation** |

## CERTIFICATES

**Google Data Analytics**
**View Certificate**

## INTERESTS

- **Data Science and Machine Learning**
- **Sports and physical abilities**
- **Reading and continuous learning**
- **Outdoor activities**
- **Creative pursuits such as data visualization projects**