IBRAHIM AHMED YAHYA AL-SHAMI

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WORK HISTORY

Stamcode - ***Software Developer (Part Time)***
05/2022 - Current

- Developed Clinical Pharmacy Interventions web based app using Django to asset pharmacists to report and record their daily interventions.
- Integrated the database of the web application with the mobile app version using RSET APIs developed in Django Rest Framework.

Fuel Cell Institute (SelFuel) - ***Graduate Research Assistant***
Bangi , Selangor
07/2020 - Current

- Assigned to develop uniform platinum coating on titanium surface for Bipolar plate inside PEM electrolyzer application.
- Executed different tests to evaluate coating performance including conductivity test, roughness and electrochemical corrosion tests (LSV, EIS and CV).
- Planned, modified and executed research techniques, procedures and tests on PEM electrolyzer to test for performance and degradation over time.
- Prepared materials for reports, presentations and submissions to peer-reviewed journal publications.

Fuel Cell Institute (SelFuel) - ***Research Assistant Intern***
Selangor, Bangi
06/2019 - 08/2019

- Managed to design an enhanced flow field model using Ansys Fluent software that enhanced the overall efficiency of the system by 40% compared to conventional designs.

PROJECTS

Online Fault Detection and Diagnosis using Artificial Neural Networks (ANNs) for Process Unit - (Youtube)

- Designed and built a laboratory scale chemical process using Arduino microcontroller and different sensors/actuators.
- Trained and deployed a neural network fault detection based method to provide online monitoring and fault detection for the process in real-time.

Student Diary – (Live-Website)

- Built a web based app using Django framework that allows students to share their knowledge and notes with each other.
- Developed a customized and professional dashboard for each user to view, edit or publish their products.
- Integrated payment method using Paypal API.

PUBLICATIONS

- Teuku H, **Alshami I**, Goh J, Masdar MS, Loh KS. **Review on bipolar plates for low-temperature polymer electrolyte membrane water electrolyzer**. Int J Energy Res. 2021;1-18. doi:10.1002/er.7182. (Published)
- Ammar Bazarah, Edy Herianto Majlan, Teuku Husaini, A.M. Zainoodin, **Ibrahim Alshami**, Jonathan Goh, Mohd Shahbudin Masdar. **Factors Influencing the Performance and Durability of Polymer Electrolyte Membrane Water Electrolyzer: A review**. *Int. J. Hydrogen Energy*. (Published)

SKILLS

- Languages: English (Proficient), Arabic (Native)
- Programming Languages: Python (Proficient), MATLAB, Javascript, HTML, CSS
- Frameworks and Software's: Django, Vue.js, Flask, Bootstrap, Ansys Fluent, Arduino IDE
- Libraries: TensorFlow, Pytorch, Pandas, matplotlib, Beautiful Soup, Selenium, tkinter, numpy.

EDUCATION

Universiti Kebangsaan Malaysia (UKM)
Selangor, Malaysia
Expected in 02/2023

Master of Science
Hydrogen Energy

Udacity
08/2021

Nanodegree Program
Deep Learning

Universiti Putra Malaysia (UPM)
Selangor, Malaysia
08/2020

Bachelor of Engineering
Chemical And Environmental Engineering

- CGPA: 3.8
- FIRST CLASS HONOURS
- Best Final year project award

CERTIFICATIONS

- 100 Days of Code - The Complete Python Pro Bootcamp for 2021 (Udemy)
- AWS Machine Learning Foundations Scholarship (Udacity)
- Symposium on Fuel Cell and Hydrogen Technology 2021 (SFCHT2021) - Presenter.
- SQL for Data Science 2022 (Coursera)
- Metal Plating for Corrosion and Wear (Workshop) – Attendee