

HES - Volunteering Program Verification Form

This form is to be used to document volunteering hours. If a student volunteers for multiple organizations, a separate form must be used for each organization. **This form must be turned in by the 28th of each month, the latest.**

I certify that the scholar Raghad Ziad Rashed completed a total of 5 hours of service at InnovaThrive.

The hours were completed hours as per the below:

Hours # 0 (date) _2/12 – 6/12_ (initials of supervisor) __A.K.__

Hours # 0 (date) _9/12 – 13/12_ (initials of supervisor) __A.K.__

Hours # 0 (date) _16/12 – 20/12_ (initials of supervisor) __A.K.__

Hours # 5 (date) _23/12 – 27/12_ (initials of supervisor) __A.K.__

Brief description of the activities the scholar performed or participated in:

I did a research task on Technology including AI in Advancing Renewable Energy Storage Solutions

Definition: Using AI to optimize the efficiency and reliability of energy storage technologies.

Technologies:

Machine learning models for battery performance predictions.

AI-driven energy storage management systems.

Applications:

Extending battery life in solar and wind energy systems.

Dynamic allocation of stored energy based on real-time demand.

Statistics: AI-optimized storage systems reduce energy losses by up to 30%.

Advantages:

Increasing the viability of renewable energy sources.

Lowering operational costs for energy providers.

Disadvantages:

High costs of implementing AI in storage technologies.

Challenges:

Ensuring compatibility with various energy grids.

Future Research:

AI for innovating hydrogen-based energy storage.

Expanding storage systems for decentralized energy markets.

Written feedback about the scholar's performance:

Raghad's research on AI in renewable energy storage highlighted its role in optimizing efficiency and reducing energy losses. Her exploration of AI-driven systems for dynamic energy allocation was insightful, showing great potential for future energy solutions.

Please rate the overall performance of the scholar at your organization:

	Mastery (5)	Proficient (3)	Emerging (1)
Problem solver	X		
Engaged & Committed	X		
Open-minded & multicultural	X		

Signature & stamp Andrew El Kahwaji

Printed Name Andrew El Kahwaji

Date 26/12/2024

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CEO of InnovaThrive