

Fatima Hassan

Junior Energy Engineer

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BEng Energy Engineering graduate from Nottingham Trent University with a summer placement at **Renewable Energy Systems (RES)**. Designed solar PV layouts for **3 commercial rooftop projects** with a combined capacity of **480kWp**. Ran yield assessments in PVsyst and contributed to technical proposals worth **£1.1 million** in project revenue. Graduated with **First Class Honours (71% average)** and hold Energy Institute graduate membership.

Experience

Energy Engineering Intern (Summer Placement), Renewable Energy Systems (RES), Kings Langley

Jun 2025 – Aug 2025

Completed a 12 week summer placement in the solar and storage design team at RES.

- Designed solar PV array layouts for **3 commercial rooftop projects** totalling **480kWp**, using AutoCAD and PVsyst
- Ran yield assessments in PVsyst for each project, producing shading analysis and annual generation forecasts used in client proposals
- Contributed to **4 technical proposals** for commercial clients, supporting **£1.1 million** in combined project revenue
- Performed cable sizing and voltage drop calculations in accordance with **BS 7671** for AC and DC circuits

Energy Auditor Assistant (Part-time), Nottingham City Council, Nottingham

Oct 2024 – May 2025

Assisted the council's energy team with building energy assessments under the ESOS programme.

- Visited **8 council buildings** to collect energy consumption data and record building fabric details
- Produced draft energy audit reports for **5 buildings**, identifying potential savings of **£42,000 per year**

Education

BEng (Hons) Energy Engineering in Energy Engineering, Nottingham Trent University, Nottingham

Sep 2022 – Jun 2026

Graduated with First Class Honours (**71% average**).

- Final year project on the techno-economic feasibility of a 2MWh community battery storage system, graded **75%**
- Relevant modules: Renewable Energy Systems, Building Services Engineering, Electrical Power Systems, Energy Economics

Skills

PVsyst • AutoCAD • Solar PV System Design • Energy Yield Assessment • Cable Sizing (BS 7671) • Building Energy Auditing • Homer Pro • Energy Performance Certificates • Heat Pump Design Basics • Technical Report Writing • Microsoft Excel • Python

Certifications

Energy Institute Graduate Member (GradEI), Energy Institute

Sep 2025 – Sep 2025

Domestic Energy Assessor (Level 3), ABBE

Apr 2025 – Apr 2025

Languages

English - Native • Arabic - Conversational

Projects

Community Battery Storage Feasibility Study (Final Year Project)

Sep 2025 – Apr 2026

Assessed the technical and economic feasibility of a 2MWh lithium-ion battery storage system for a community energy scheme in Nottinghamshire.

- Modelled charge/discharge cycles and grid interaction using Homer Pro, demonstrating **annual energy cost savings of £58,000** for 120 connected households
- Calculated a payback period of **8.2 years** with available BEIS funding and grid services revenue
- Presented findings to a panel of **3 industry professionals** and received commendation for commercial realism

Extra Curricular Activity

NTU Sustainability Society Events Coordinator

Sep 2024 – May 2026

Organised **4 campus sustainability workshops** and a panel event on careers in renewable energy attended by **65 students**.