

CV | Buthayna Qutaina

RESEARCHER / ENERGY ENGINEER

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Objectives

Recent Durham University postgraduate researcher, awaiting graduation, with extensive research experience in techno-economic analysis of renewable energy sectors:

- ✓ **R&D:** Skilled in renewable engineering and energy auditing, technical modelling, translating complex data into actionable insights and proposals.
- ✓ **Operational Excellence:** Strong background in front-facing support, maintaining high service standards while managing multiple competing priorities.
- ✓ **Service-Oriented Mindset:** Committed to providing a professional guest experience through proactive problem-solving and meticulous attention to detail.
- ✓ **Event & Stakeholder Management:** Experienced in the end-to-end delivery of events, providing clear communication and seamless logistical support to diverse audiences in fast-paced environments.
- ✓ **Adaptability & Versatility:** Demonstrated ability to work flexibly across various roles, combining academic rigour with practical, customer-facing expertise.

Skills

- Renewable Energy
- Techno-economic
- Energy Auditing
- Energy Modelling
- Environmental assessment
- Project Management
- Event & Conference Support
- Reporting (Written & Verbal)
- Teamwork & Collaboration
- Adaptability & Flexible Working
- Languages
 - English (professional)
 - Arabic (native)
 - Spanish (upper A1)
 - Urdu (upper A1)

Education

Durham University

MSc (RESEARCH) IN RENEWABLE ENERGY ENGINEERING

Durham, UK

2025 - Present

- **Thesis:** Techno-Economic Analysis of UK Green Hydrogen Projects: A Monte Carlo and Sobol-Based Assessment of Financial Viability under HAR1 Policy Frameworks

Durham University

MSc (TAUGHT) IN RENEWABLE ENERGY ENGINEERING

Durham, UK

2024

- **Thesis:** Wind Energy Assessment for Gaza's Coastal Waters

An-Najah National University

BACHELOR OF SCIENCE IN ENERGY ENGINEERING & ENVIRONMENT

Nablus, Palestine

2020

- **Thesis:** GIS-based site selection methodology for renewable energy in Palestinian Territories

Work Experience

Dept. of Engineering | Durham University

DEMONSTRATOR

Oct. 2025 - Mar. 2026

- Delivered front-facing support to students in busy lab environments, acting as a first point of contact for queries and guidance.
- Communicated complex information clearly to diverse audiences in a friendly and accessible manner.
- Maintained a safe, clean, and organised environment aligned with operational standards.
- Managed multiple student queries simultaneously in time-pressured sessions.
- Collaborated with academic teams to ensure smooth session delivery.

Energy Research Centre | An-Najah National University

RESEARCH ASSISTANT (PART-TIME)

2021 - 2023

- Conducted literature reviews, desk-based research, and data analysis to support academic and industry-linked studies.
- Prepared technical reports and research outputs tailored for different audiences.
- Coordinated interviews and data collection for feasibility and development assessments.
- Supported evidence-based analysis and structured problem-solving across research projects.
- Worked to deadlines while managing multiple tasks effectively.

Al-Takroory Office for Accounting and Auditing

FINANCIAL ANALYST

Apr. 2022 - Sep. 2023

- Managed administrative processes, records, and reporting in a fast-paced environment.
- Worked to strict deadlines with close attention to detail.
- Supported coordination of daily operations and team activities.

Enerwhere

PROJECT ENGINEER INTERN

Sep. 2019 - Jan. 2020

- Supported the preparation of technical proposals and commercial documentation.
- Worked with the team on project development and report preparation.
- Researched products, pricing, and market opportunities.
- Contributed to analytical cost-revenue studies and design specifications.

PADICO Holding

ENERGY ENGINEER INTERN

Jun. 2019 - Aug. 2019

- Supported PV system design and monitoring.
- Collected data for research and development reports.
- Assisted with technical documentation and project support tasks.

Hebron Electricity Company

ELECTRICAL ENGINEER INTERN

Jul. 2018 - Aug. 2018

- Assisted supervisors with practical engineering tasks across several company units.
- Supported installation and inspection activities.

Engagements & Visibility

• Conferences & Talks

- Erasmus+ Project Environment Sensibility, Palestine team representative.
- IEEE PIONEERS 2.0, organiser and ambassador.
- Erasmus+ Project Children's Privacy in social media, Palestine team representative.
- IEEE EMEA Gathering, ambassadors coordinator & PES session moderator.
- IEEE Region 8 SYP, 2022, attendee and poster-presenter.
- Krea University "Alternative energy on a finite planet" course, 2022, online guest speaker.
- International Women's Day campaign – GROW Project, 2022, speaker.
- IEEE Women in Power (WIP) PES Day activity region 8, 2021, online moderator.
- IEEE Bolivia Section WIE event, 2021, online speaker.
- IEEE Women in Power (WIP) PES Day, 2020, online speaker.
- IEEE Young Professional in Space, 2019, attendee.
- 3rd IEEE PES Student Congress, 2018, attendee and poster-presenter.
- IEEE PES Day at UPIITA-IPN, 2018, PES online speaker.
- 1st IEEE WIP Brazil month, 2018, PES WIP-WIE online speaker.
- IEEE GrandTech, 2015, attendee.
- National Educational Conference, 2011, attendee and presenter.

Ankara, Turkey
Ramallah, Palestine
Ramallah, Palestine
online
Tunis, Tunisia
Sricity, India
Ramallah, Palestine
Palestine
Cochabamba, Bolivia
Nablus, Palestine
Dubai, UAE
Sao Paulo, Brazil
Mexico City, Mexico
Rio de Janeiro, Brazil
Nablus, Palestine
Hebron, Palestine

Honours & Awards

- ✓ *MSc Research Scholarship*, Durham University (UK), 2025
- ✓ *MSc Taught Scholarship*, Durham Palestine Education Trust (UK), 2023
- ✓ *Best Ambassador*, IEEE Region-8 Entrepreneurship Competition, 2023
- ✓ *Travel grant*, IEEE SYP Conference, 2022
- ✓ *Prime Minister Scholarship*, The Ministry of Higher Education (Palestine), 2015
- ✓ *Entrepreneurship Grant*, Al-Nayzak Palestinian Science and Technology Entrepreneurship Program, 2013

Publication Summary

- Yasin, Aysar, **Qutaina, Buthayna** and Al-Saqqa, Saif "Enhancing Energy Efficiency in a Palestinian Dairy Factory Utilizing RETScreen Expert." An-Najah University Journal for Research - A (Natural Sciences), 38(2), pp. 118–124, 2024.
- **Qutaina, Buthayna**, Shehada, Ahmed, Yasin, Aysar and Alsayed, Mohammed "Geographical information systems based site selection methodology for renewable energy systems in Palestinian territories." International Journal of Electrical & Computer Engineering (2088-8708), 13(4), 2023.