



Elhassan

BENEMMANE

Renewable Energy Engineer

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📍 Southampton, United Kingdom

SUMMARY

Renewable Energy Engineer with hands-on experience in solar, wind, and hybrid projects, including internships with Morocco's National Office of Electricity (ONEE), a governmental entity under the auspices of the Ministry of Energy. Strong interest in energy governance, sustainability policies, and decentralized energy systems. IEEE Member with proven leadership, project management, and multilingual communication skills (English, French, Arabic, German).

EDUCATION

10/2025 - 09/2026	MPhil in Technology Policy – Cambridge Judge Business School - University of Cambridge (Shortlisted & Interviewed, Final Decision Pending)
09/2022 - 06/2025	BEng (Hons) Renewable Energy Engineering - 1st Class Honours (Expected +85%) Southampton Solent University, United Kingdom
01/2022 - 08/2022	S.T.E.M International Foundation Programme - QAHE Award Southampton Solent University & QAHE, United Kingdom
09/2019 - 06/2021	D.U.T eq. HND in Renewable Energy and Energy Efficiency - 14/20 eq. 70% The Superior School of Technology in Beni Mellal, USMS (Sultan Moulay Slimane University)
09/2018 - 07/2019	Technical Baccalaureate (French) in Electrical Sciences and Technologies - 14/20 eq. 70% Technical High School Jaber Bnou Hayyan

PROFESSIONAL EXPERIENCE

11/2024 - 02/2025	Internship - National Office of Electricity and Water, Department of Studies and Works & Southampton Solent University National Office of Electricity and Drinking Water Laayoune, Morocco & Solent University ↗ <ul style="list-style-type: none">Project: Decentralized Energy Management in Morocco: Blockchain, smart grids, smart contracts and policy frameworks for more renewable integration.
05/2023 - 09/2024	Assistant Manager (Summers) - MOBENOM GROUP S.A.R.L MOBENOM GROUP S.A.R.L - Laayoune, Morocco ↗ <ul style="list-style-type: none">Project 1: 128kWp Solar installation in Dakhla, Morocco.Project 2: 600kW Private hybrid energy park for a fish processing facility (KOMO Fish) - In Progress, El Marsa, Morocco.
06/2023 - 09/2023	Engineering Internship - National Office of Electricity and Water, Department of Studies and Works National Office of Electricity and Water (ONEE) - Laayoune, Morocco ↗ <ul style="list-style-type: none">Project 1 : Studying the Impact of the ASSA-ZAG Solar Park on the National MV Grid.Project 2 : Strategies for Mitigating Degradation of Medium Voltage Electrical Equipment in Harsh Saline Environments (IEEE PES Paper - under review).
04/2021 - 06/2021	Maintenance Supervisor - Internship - ENGIE & Nareva Holding (TAREC 301MW Wind Farm) TAREC Wind Farm (ENGIE & Nareva Holding) - Casablanca and Tarfaya, Morocco ↗ <ul style="list-style-type: none">Project: Detecting and Locating Electrical Faults in MV Underground Cables of the Wind Farm and Distribution Grid.
10/2020 - 04/2021	Academic Research Experience - USMS University, The Superior School of Technology LITA LAB, The Superior School of Technology, USMS (Sultan Moulay Silimane University) - BM, ↗ Morocco <ul style="list-style-type: none">Project: Elaborating a Human Machine Interface to Supervise the Solar Park of the Superior School.

CERTIFICATES AND MEMBERSHIPS

01/2025 - Present	Member - IEEE Membership ID: 100878763 - IEEE
11/2024 - Present	Affiliate Member - IMechE Membership ID: 80758004 - Institution of Mechanical Engineers (IMechE)

11/2024 - Present	Energy Audits ↗ Schneider Electric
12/2022 - Present	Associate Member - IET Membership ID: 1101130748 - Institution of Engineering and Technology (IET)
05/2024 - 07/2024	Professional Certificate - IBM AI Engineering Certificate ↗ IBM through Credly by Pearson
12/2023 - 01/2024	Hydro, Wind & Solar power: Resources, Variability & Forecast ↗ Paris PolyTechnic School, L'X
11/2023 - 01/2024	Strategic Management and Innovation Specialization ↗ Copenhagen Business School
10/2023 - 01/2024	Managing Major Engineering Projects Specialization ↗ University of Leeds
11/2023 - 12/2023	Managing and Managing People ↗ The Open University

ACADEMIC AND PROFESSIONAL PROJECTS

12/2024 - 03/2025	Decentralized Energy Management in Morocco: Blockchain, smart grids, smart contracts and policy frameworks for more renewable integration. National Office of Electricity and Water & Southampton Solent University <ul style="list-style-type: none"> Analyzed the technical challenges and policy implications of integrating decentralized energy systems within Morocco's national grid, contributing to national sustainability strategies.
08/2024 - 09/2024	600kW Hybrid Private Power Plant Project for a Fish Processing Facility in El Marsa, Morocco In Progress - MOBENOM GROUP LLC - Morocco
07/2024 - 10/2024	128kWp Solar Design and Installation for a Restaurant in Dakhla, Morocco MOBENOM GROUP LLC - Morocco
06/2024 - 07/2024	CO2 Emissions Prediction for Vehicles Using Machine Learning Regression Models IBM
01/2024 - 05/2024	Consultancy Report on Optimal Horizontal Axis Wind Turbine Selection for TAREC Wind Farm SSU - Consultancy Report
01/2024 - 05/2024	Consultancy Report on Wave Energy Systems at the Isle of Lewis SSU - Consultancy Report
12/2023 - 05/2024	Consultancy Report on Solar Energy System Design and Optimization SSU - Consultancy Report
10/2023 - 01/2024	Capstone Project on UK High-Speed Rail (HS2) University of Leeds through Coursera
09/2023 - 01/2024	Environmental Impact Assessment EIA - Solent Energy Gateway Study Solent Energy Gateway Project - SSU Group Consultancy Project
06/2023 - 09/2023	Strategies for Mitigating Degradation of Medium Voltage Electrical Equipment in Harsh Saline Environments (IEEE PES Paper - under review). National Office of Electricity and Water - (IEEE PES Paper Under Review).
06/2023 - 09/2023	Studying the Impact of the ASSA-ZAG Solar Park on the National MV Grid. National Office of Electricity and Water
12/2022 - 03/2023	Material Selection and Manufacturing of Wind Turbine Blades SSU - Consultancy Report
04/2021 - 06/2021	Detecting and Locating Electrical Faults in MV Underground Cables of TAREC's Wind Farm TARFAYA TAREC Wind Farm - ENGIE & NAREVA Holding
01/2021 - 04/2021	Consultancy Report on Sizing a Biomass Biogas Plant The Superior School of Technology - USMS University
12/2020 - 06/2021	Elaborating an HMI to Supervise The Production of The Solar Park at The Superior School The Superior School of Technology - USMS University
09/2020 - 03/2021	Energy Efficiency Assessment in Buildings The Superior School of Technology - USMS University

ACADEMIC AND PROFESSIONAL SHOWCASES

01/2024	Poster Presentation - Maximizing Efficiency of Horizontal Axis Wind Turbines (HAWTs) The Spark, Southampton Solent University
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07/2022	Poster Presentation - Sustainable Batteries The Spark, Southampton Solent University & QAHE
06/2021	Elaborating a Human Machine Interface to Supervise The Solar Park of The Superior School Presentation - LITA LAB, The Superior School of Technology - USMS University
06/2021	Detecting and Locating Electrical Faults in MV Underground Cables of TAREC's Wind Farm Presentation - LITA LAB, The Superior School of Technology & TARFAYA Wind Farm

AWARDS AND ACHIEVEMENTS

09/2022	Excellence Award - 20% OFF Tuitions - Approx. 12,000GBP QAHE <ul style="list-style-type: none"> Recognized for academic excellence.
06/2022	Most Dedicated Student QAHE & Solent University <ul style="list-style-type: none"> Awarded for outstanding dedication.
01/2007	National Champion in Sino-Vietnamese Martial Arts – 14 Titles Consecutively (2007–2016) Royal Moroccan Federation of Judo and Martial Arts - Category: Combat Fighting and Kata <ul style="list-style-type: none"> Demonstrating discipline and leadership skills.

SKILLS

Energy Governance & Policy	Environmental Impact Assessment
Regulatory Frameworks for Renewable Energy	Policy Impact Assessment
Energy Transition Strategies	Decentralized Energy Systems
Smart Grids & Blockchain Integration	Leadership & Communication
Carbon Footprint & LCA Analysis	Project Management

LANGUAGES

English	Fluent	German	Basic
French	Fluent	Spanish	Basic
Arabic	Native	Portuguese	Basic

REFERENCES

Dr. Shehu Yushau - BEng, MSc, PhD, MIET

Lecturer In Engineering
Dept of Science & Engineering - Southampton Solent University
shehu.yushau@solent.ac.uk

Supervisor & Lecturer - Known for 2 years

Dr. Sinan Khwandah - UCU Vice President, PhD, MSc (Wireless), MSc (Networking), PGDip (Automation), BSc (Hons), SFHEA, CCNA, CENG (5G), MIET, MIEEE

Lecturer In Engineering
Dept of Science & Engineering - Southampton Solent University
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Lecturer - Known for 2 years