



Ahmed Abutabaq

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📍 Home: Al-faloujah, P820 Gaza (Autonomous Palestinian Territories)

WORK EXPERIENCE

Research Assistant

Center of Excellence for Renewable Energy, The Islamic University of Gaza [Aug 2021 – Current]

Website: <https://cere.iugaza.edu.ps/en/>

Main projects:

- Collaboration with the University of Birmingham to evaluate the spatial and temporal distribution of electricity in the Gaza Strip and co-develop a concentrated solar power (CSP) plant
- Simulations of a wave energy plant in the Gaza City harbor

Responsibilities:

- Perform thermal analysis using ASPEN software
- Optimize the extraction of sea wave energy through simulations of the hydraulic power take-off system using SIEMENS AMESIM simulation software
- Co-author a scientific paper on the simulation of the wave energy station in the Gaza Strip

EDUCATION AND TRAINING

Bachelor of Science in Mechanical Engineering

Islamic University of Gaza [Aug 2016 – Jan 2022]

Address: Al-faloujah, P820 Gaza (Autonomous Palestinian Territories)

Website: <https://www.iugaza.edu.ps/>

Design, Installation, Operations, and Maintenance of Solar PV Systems

United Nations Industrial Development Organization [Sep 2022 – Nov 2022]

LANGUAGE SKILLS

Mother tongue(s): **Arabic**

Other language(s):

English

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A2

DIGITAL SKILLS

DS Solidworks (Optimal Knowledge) / Good familiarity with MATLAB, Simulink / Ansys Workbench, Ansys Fluent / automation studio / Basic Aspen HYSYS / Siemens Simcenter Amesim

PROJECTS

Graduation Project II: Simulation of the Hydraulic Power Take-Off System at the Wave to Energy Station Installed in Gaza Strip

[Sep 2020 – Jan 2021]

PUBLICATIONS

T. Alrayyes, M. Jarad, A. Abutabaq, K. Ghunaim, M. Abuaiba, "Modelling of the Hydraulic Power Take-Off System at the Wave to Energy Station Installed in Gaza Strip," SET 2022 – the 19th International Conference on Sustainable Energy Technologies, 2022, Istanbul, Turkey.

CONFERENCES AND SEMINARS

International Conference on Sustainable Energy Technologies (SET2022)

[16 Aug 2022 – 18 Aug 2022]