

Prof.Dr. Marwan M. Mahmoud

Electrical Engineering Department, An-Najah National University, Nablus, Palestine
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CURRENT POSITION

Professor at Electrical Engineering Department, An- Najah National University, Palestine
October 1994 – Present

EDUCATION

- PhD in Power Electronics and Electric Energy Systems, Swiss Federal University of Technology (ETH-Zuerich), Switzerland June 1982.
Doctoral Thesis: Investigations on Mains Current Characteristics and Load Sensitivity of Power Pulsation-Compensated Cyclo-converters with Single Phase Output. Diss. ETH - Zuerich Nr. 7092.
- Dipl. Ing. in Electrical Engineering , Technical University Aachen (TH-Aachen), Germany 1973.

WORK EXPERIENCE

- Professor at (ANNU), Oct. 1994–present.
- Dean HishamHijawi Collage of Technology, An Najah national University Nablus August 2001- Oct.2002
- Director of Energy Research Centre at ANNU, Nablus–Palestine, Sept. 1996- Aug. 2001.
- Head of Photovoltaic Department and principal researcher in the field of power electronics, electric machines, measurement techniques, PV, wind energy , rural electrification, water desalination and water pumping systems at the Renewable Energy Research Centre (RERC) of the Royal Scientific Society (RSS), Amman-Jordan, Nov. 1984–Oct. 1994.
- Member of Foundation team of Princess Sumaya University of Technology - Amman , July 92 - Oct. 94 and chief of Electronic Eng. Department in it, July 93 - Oct. 94.
- Assistant Director of RERC/RSS, Amman-Jordan Feb. 88-May 1989.
- Acting Director of RERC/RSS, Amman-Jordan Sept. 87–Jan. 1988.
- Head of Wind Energy and Photovoltaic Section, RERC/RSS , Amman-Jordan Oct. 1983-Nov.1984
- Researcher and principal engineer in the field of photovoltaic, power electronics , measurement techniques and wind electric systems RERC/RSS , Amman- Jordan, Aug. 82–Nov. 1983.
- Researcher and teaching assistant at the Institute of Automatic Control and Power Electronics, Swiss Federal University of Technology (ETH–Zuerich) (Working on Doctoral Thesis) Zuerich, Switzerland, Oct. 77–Aug. 1982.
- Principal engineer in the field of electronics maintenance, electric machines and measurement techniques, RSS, Amman- Jordan, Sept. 75–Oct. 1977.
- Teaching assistant and researcher in the fields of applied electromagnetic, electrical measurements and linear motors, Technical University Aachen - Germany, Jan 74–July 1975.

Certifications or professional registrations

Member of Jordanian Engineers Association 1975-present

COMPUTER SKILLS

MS Office and Pspice

TRAINING

- US-AID, University of Florida-Gainesville-USA Feb. 83-June 1983, Special Course on Alternative Energy Systems.
- Training in some German companies on different fields for short periods .

AWARDS

- Scholarship at Technical University Aachen - Germany: 1969-1973 to obtain the German Academic Degree Dipl. Ing. In Electrical Engineering.
- Scholarship from the Swiss Confederation: 1977-1982 Doctoral Candidatesat ETH-Zuerich to obtain Ph. D in Power Electronics.
- Honors Medal of the Swiss Federal University of Technology (ETH Zuerich) for Distinction Doctoral Thesis and Examination, June 1982.
- King Abdullah(1st)- Prize for Development of a Solar Matched PV Water Pumping System Used on Desert Wells, RSS-Amman , Jordan , 1995

COURSES TAUGHT:

BACHELOR COURSES:

- Electric Circuits
- Electronics
- Power Electronics
- Measurements and Instrumentation
- Electric Machines
- Alternative Energy Systems
- Electric Machines - Measurements Laboratories
- Electronics Laboratories
- Measurements Laboratories
- Supervision of many graduation student projects from 1997-present

MASTER LEVEL COURSES:

- Renewable Energy Technology 1
- Renewable Energy Technology 2
- Supervision of twelve Master Thesis in energy engineering fields

PUBLICATIONS

REFEREED JOURNALS:

Technical Papers–(International Journals)

A1-F.A Ahmedov, Marwan Mahmoud, P.A. Momenov, M. Amro, Experimental station for testing of photovoltaic modules characteristics, Solar Energy Technology, Academy of Science of the Soviet Union, (Moscow & Uzbekistan) ODK 621.362, Oct. 1985.

A2-Hafez M.El.Zayyat and Marwan Mahmoud, Jordan first photovoltaic water pumping system, Dirasat, University of Jordan Vol. XIII, No. 10, Oct. 1986.

A3-Hafez M. ElZayyat and Marwan Mahmoud, Photovoltaic power generators for radio communication systems in Jordan, IEE Proceedings, Vol. 135, Pt. C, No. 5 Sept. 1988.

A4-Marwan Mahmoud, Experience results and techno-economic feasibility of using photovoltaic generators instead of diesel motors for water pumping from rural desert wells in Jordan, IEE proceedings, Vol. 137, Pt. C, No. 6, Nov. 1990.

A5-Marwan Mahmoud and Ismail Nabhan, Analytical and graphical methods for determination of solar cell parameters and investigations of shadowing effect, Int. J. Solar Energy, Vol. 9, 1990.

** There are 21 additional papers have been published from 1990-present (available upon Request.)

REFEREED CONFERENCES: Available upon request

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