

Personal Resume

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OBJECTIVE:

Position as a researcher or teaching staff member.
Part 1 Resume summary

1. Teaching Experience

- Head of Electric and Electronic Eng. Dept., University of Tripoli, Faculty of Engineering, Tripoli-Libya
- Assistant Professor at University of Tripoli, Faculty of Engineering, Electric and Electronic Eng. Dept. Involved in Teaching Electronic Courses and Laboratories. Tripoli-Libya

2. Industrial Experiences

- Board member at Renewable Energy Authority of Libya REOAL. Tripoli-Libya
- Scientific Committee Member at the Center for Solar Energy studies and Research (CSERS). Tripoli-Libya
- Electrical Engineer at Embedded Logix Co. worked on electronics, electrical and programming tasks. Detroit, Michigan USA
- Solar Engineer, SOLLATEK (UK) Ltd, Tripoli – Libya.
Involved in installing tens of stand-alone solar PV systems for powering microwave repeater stations

3. Research Experiences

- Researcher at Wayne State University, ECE dept. on a proprietary prototype solar cell development funded by eVjump Solar Inc. Detroit, Michigan USA
- Researcher at microfluidics lab at WSU: Contributed in electronic circuit design for multi-color light detection (i.e., absorbance and fluorescence) that uses frequency division multiplexing in biomedical engineering applications.
- Researcher at university of Tripoli, faculty of engineering, electric and electronic Eng. Dept. Involved in Developing a physical vapor deposition laboratory.
- Researcher at the Center for Solar Energy studies and Research (CSERS). Tripoli-Libya.

4. Consultation Experience

Consultant and supervisor for PV solar systems and passive cooling shelters at Libyana Mobile Phone Company, Tripoli- Libya.

5. Professional Training

- Solar cells characterization methods, Fraunhofer Institute, Gelsenkirchen-Germany

- PV Training Course on solar PV systems and components, SOLLATEK (UK) Ltd, Slough-UK.

Part 2 Detailed Resume

EDUCATION

June 1992	B.Sc. in Electrical and Electronic Engineering, Communication Division, University of Tripoli (previously El-Fateh university), Tripoli, Libya Graduation Project Title: PSPICE Modeling of BJT
Oct. 2003	M Sc. in Electrical and Electronic Engineering, EE Department, Al-Fateh University, Thesis Title “Numerical Modeling of Solar Cells Structures”
Aug. 2013	Ph.D. from Wayne State University, ECE Department. Thesis title: “Multiplexed Photometry and Fluorimetry Using Multiple Frequency Channels”.

PROFESSIONAL EMPLOYMENT

Full Time

March 2015 to March 2022	Board member at Renewable Energy Authority of Libya REOAL.
Nov. 2019 to Nov. 2020	Head of Electric and Electronic Eng. Dept., University of Tripoli, Faculty of Engineering, Tripoli-Libya
Jan. 2016 to Dec 2022	Scientific Committee Member at the Center for Solar Energy studies and Research (CSERS). Tripoli-Libya
June. 2016 to Dec 2022	Editorial Board member of Solar Energy and Sustainable Development Journal. Tripoli-Libya
Sep. 2013 to present	Assistant Professor at University of Tripoli, Faculty of Engineering, Electric and Electronic Eng. Dept. Involved in Teaching Electronic Coerces and Laboratories. Also, Developed a physical vapor deposition laboratory at the EEE Dept. Tripoli-Libya
from June 2009 until June 2010	Worked at Wayne State University, ECE dept. Researcher on a proprietary prototype solar cell development funded by eVjump Solar Inc.

Sept. 2010 Aug. 2013	<p>Researcher at microfluidics lab at WSU: Contributed in electronic circuit design for multi-color light detection (i.e., absorbance and fluorescence) that uses frequency division multiplexing. The developed Bio-electronic system can be used in multiple Biomedical engineering applications.</p>
Sept. 2004 March 2008	<p>Faculty staff member at university of Tripoli, faculty of engineering, electric and electronic eng. Dept. Involved in teaching electronic circuit courses and laboratories.</p> <p>Researcher at the Center for Solar Energy studies and Research.</p> <ul style="list-style-type: none"> • Sizing and Simulation of PV systems. • Solar Cells Modeling. • Supervision of installation of 10 solar water pumping systems (18 KW_P) • Member in a Committee for remote village electrification by PV systems, to contribute in the following tasks: <ul style="list-style-type: none"> * Specification Preparation * Bill of Quantities Preparation * Call for Tenders * Tenders study • Operation of Meteorological Station.
August 1995 to Sept. 2004	
March 1993 to March 1995	<p>Lab rotary Engineer at University of Tripoli, Faculty of Engineering, EEE Dept.</p>

Part Time

From Apr. 2007 to Apr. 2008	Consultant and supervisor for solar PV systems and passive cooling shelters at Libyana Mobile Phone Company, Tripoli- Libya
Jan. 2011 – Aug. 2013	Electrical Engineer at Embedded Logix co. on electronics, electrical and programming tasks. Detroit, Michigan UAS
Autumn 1995	Lecturers in higher Institute for Industrial Vocational, Tripoli – Libya.
Autumn 2003	Lecturer, higher Institute for Electronics Vocational, Tripoli – Libya.

May 1997
to Jan. 2000

Solar Engineer, SOLLATEK (UK) ltd,
Tripoli – Libya.

- Supervision of installation of 26 solar systems (124.8 KW_P) for microwave repeaters (GPTC).
- Trouble shooting, monitoring and maintenance of solar PV systems for microwave repeaters for Libyan telecommunication company.

Training

From 08/17/04
to 09/17/04

- Solar cells characterization methods, Fraunhofer Institute, Gelsenkirchen-Germany

From 08/30/2002
to 09/20/2002

- PV Training Course, SOLLATEK (UK) ltd, Slough-UK

Publications

11–13 March 2008

Review Paper on Solar Cells Technologies and their Systems.
First Conference and Exhibition on Renewable Energies and Water Desalination Technologies.
Tripoli – Libya.

4-8 Sept. 2006

Developed Numerical Modeling Code (DNMC) For Simulation Of Solar Cells.
21st European Photovoltaic Solar Energy Conference. Dresden, Germany

20-22 Nov. 2004

Superposition Breakdown in Conventional Solar Cell Operation under High Concentration. Arab International Conference on Solar Energy Applications. Tripoli-Libya

Issue No. 2, 2005

Mechanisms of Degradation in the Performance of Thyristor-Structure Solar Cells.
Journal of Basic and Applied Sciences, Vol. 15.
Tripoli-Libya.

Aug. 30th- Sep 3rd,
2011

High Speed Low Noise Multiplexed Three Color Absorbance Photometry.
33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC '11).

October 2-6, 2011

Multicolor LIF Detection in a Single Optical window Using Phase-Sensitive Multiplexing
The 15th International Conference on Miniaturized Systems for Chemistry and Life Sciences.

- October 27-31, 2013 A 40-MHz Frequency Multiplexed Electronic System for Multicolor Droplet Flow Cytometry. 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Freiburg, Germany
- December 2016 Effect of Full Implementation of Solar Water Heaters on the Electricity Peak Load in Libya. Journal of Solar Energy and sustainable development (2016)
- March 2018 Low Cost, Tilt Free and High-Altitude Ultrasonic Anemometer. Libyan International Conference on Electrical Engineering and Technologies, Tripoli-Libya
- December 2018 Low-Cost High Altitude Automatic Weather Station Design, Journal of Solar Energy and sustainable development (2018).
- June 2021 Simulation of a Novel Junction-less Solar Cell Structure Using PC1D Software. Under process at Journal of Solar Energy and sustainable development (2021)

PERSONAL DATA

- Born in Tripoli, Libya, August 5, 1968
- Married, in 1997
- Children: One Son and four daughters
- Height: 165 cm
- Weight: 81 Kg
- Health: Excellent

Hobbies and interests: Chess, Reading and Listening news

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REFERENCES

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 2. Dr. Tammam Benmusa. Professor at the Electrical and Electronic Engineering Department, Faculty of Engineering, University of Tripoli, Tripoli-Libya, P.O.Box 13656, Phone:(+218) 91 4176374. e-mail: t.benmusa@uot.edu.ly
 3. Dr. Amar Basu: Associate Professor at Electrical and Computer Engineering Department, Wayne State University. Phone: 313-577-3990: e-mail: abasu@eng.wayne.edu
 4. Dr. Yang Zhao, Professor at Electrical and Computer Engineering Department, Wayne State University phone 313-577-3920; e-mail: yzhao@eng.wayne.edu.
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