

Curriculum vitae

PERSONAL INFORMATION

Name ABDELNASER MUFTAH .A. ELBREKI
Address Libya- Benghazi- Algwarsha city.
Mobile phone +601127216907
E-mail nasirburki2013@gmail.com
nasirburki@siswa.ukm.edu.my
Nationality Libyan
Date of birth 18 /Sep/ 1969
Gender Male
Marital status Married with three children.
Passport number H1RZLYRZ
Data of issue 02/09/2015
Country of issue Benghazi, Libya
Date of expiry 01/09/ 2023



LANGUAGES

Mother tongue Arabic
Other language English: Fluently Speaking, Writing, and Reading

QUALIFICATION

Title of Qualification awarded Ph.D. in Renewal Energy
Dissertation Topic (Performance of a Novel Passive Cooling System for Photovoltaic Module using Fins and Planar reflector)
Date of Graduation 23/ May/ 2018.
University Solar Energy Research Institute / Universiti Kebangsaan Malaysia
Academic Rank Assistance Professor

Title of Qualification awarded Msc. In Electrical & Electronic Engineering Department
Dissertation Topic (Practical Tuning Methods of PID Controllers)
Date of Graduation Apr, 2002
University University of Garyounis , Libya, Benghazi
Academic Rank Senior Lecturer

Title of Qualification awarded B.S c. In Electrical & Electronic Engineering Department
Dissertation Topic (CATHODE PROTECTION BY USING SOLAR CELL)
Date of Graduation Fall –1992
University University of Garyounis, Libya, Benghazi
Academic Rank Lecturer

WORKING EXPERIENCE:

NO	ORGANIZATION NAME	POSITION HELD / ACADEMIC RANK
1	College of Electrical and Electronics Technology- Benghazi	Lecturer at the Electrical & Electronic department Lecturer

2	College of Electrical and Electronics Technology- Benghazi	Head of Electrical department / Senior Lecturer
3	Higher Institute for Comprehensive Professions - Gamins	Institute Director/ Assistant Professor
4	Technical Research University for Science Engineering	Dean of the Control and IT Departments / Assistant Professor

DETAILED TASKS ASSIGNED

<i>NO</i>	<i>ORGANIZATION NAME</i>	<i>POSITION HELD</i>	<i>PERIOD FROM</i>
1	Ministry of Environment under the Auspices of the Executive Office in the Transitional National Council	Member of the Committee on Energy and RE to develop a vision of how to reduce environmental pollution of the elements resulting from the excessive use of Fossil fuels	Dec, 2011 to Dec,2012
2	General People's Committee for Manpower, Training and Employment, the United Nations Development Programme, UNDP, and United Nations Education, Science and Cultural Organization. UNESCO.	Participated in the 1st Curriculum development workshop for higher technical institutes as a head of the Electrical Department	12-22 September 2004 held in Tripoli
3	General Popularity Committee of Man Power	Charged as a one of Libyan delegation for secondment technical from Philippine	31,July 2007 to 31,Oct 2007
4	College of Electrical and Electronic Technology-Benghazi	Director of Graduate Studies Office	20,Jan 2019 until date

RESEARCH ASSISTANT

<i>NO</i>	<i>ORGANIZATION NAME</i>	<i>POSITION HELD</i>	<i>PERIOD FROM</i>
1	University of Garyounis -Benghazi	Part time teaching electrical circuit analysis (I&II), electrical circuit analysis lab's, and supervised many of graduation projects.	1999-2004
2	Al Marje University -Al Marje	Part time teaching material science and electronic (I).	2004-2005
3	Collage of trainee Preparation - Al Marje	Part time teaching Physics, mathematical (I) and supervised many of graduation projects.	2004-2005
4	Omar Elmuktar University- ELbeida	Teaching the material science and supervised of final graduation projects.	2004-2006
5	Bright-star University, Albraga	Teaching programming logic controllers (PLC).	2007-2011
6	High center of a comprehensive profession - Marada	Teaching a microprocessor, Matlab, circuit analysis, programming logic controllers (PLC) and supervised of final graduation projects.	2006-2010

7	High center of trainee Preparation	Teaching Electric measurements, electronic (I &II) and supervisor of graduation projects.	2003-2010
8	High center of comprehensive profession	Teaching electric measurement, electronic I&II, circuit analysis, and supervisor of graduation projects.	2004-2010
9	High center for computer science- Benghazi	Teaching electrical measurements, and supervisor of many graduation projects.	2002-2010

TRAINING COURSES

<i>NO</i>	<i>ORGANIZATION NAME</i>	<i>POSITION HELD</i>	<i>PERIOD FROM</i>
1	Course in field of Electrical & Electronic Laboratory (ICTS, Interactive communication and Training Systems GMBH)	Germany Eschbach, Hartheimer Str.15	8-17 October 2004
2	Course in field of Computer maintenance, Alarm systems, TV troubleshooting, FM&AM Radios, Printers& Fax machines.	Italy – VEROGIA city	28 Sep,2004 to 6 Oct,2004
3	Course in Leadership and Management (LSE: London School of Economy)	Sabratha, Libya	5 weeks from 24 th Jan till 24 th Feb 2010.
4	Course in Public Management, leadership and change (LSE: London School of Economy)	UK	14 June till 23 th July 2010.
5	Attended a course for preparation both of heads of departments and scientific affairs	Tripoli	23/7/2005 to 28/7/2005.
6	Attended a course for Developing both Behavior and Skills	Benghazi	16 March to 20 March 2005.
7	A course in Automatic Control Labs under supervision of “Rasied Scientific Consultancy & Training“.	Libya- Tripoli	10 Nov 2008 to 13 Nov 2008.
8	Level 3 Award course in Leader Ship and Management (ILM: Institute of Leadership & Management)	Libya- Tripoli	One week
9	IES (Integrated Environmental Solutions) virtual environment training	UKM- University-Malaysia	18-20 Oct, 2016
10	Design of experiment (DOE) software	International Islamic University- Malaysia	1 st Mar,2017 to 31May,2017
11	Founders of Libyan Science, Technology and Innovation Indicators Observatory (LSTIIO)	Tobrouk University	28,Jan 2019 to 30,Jan 2019

LIST OF PUBLICATIONS

1. Elbreki, A. M., Alghoul, M. A., Sopian, K., & Hussein, T. (2017). Towards adopting passive heat dissipation approaches for temperature regulation of PV module as a sustainable solution. *Renewable and Sustainable Energy Reviews*, 69, 961-1017. (Q1: 8.05)
2. Elbreki, A. M., Alghoul, M. A., Al-Shamani, A. N., Ammar, A. A., Yegani, B., Aboghrara, A. M., ... & Sopian, K. (2016). The role of climatic-design-operational parameters on combined PV/T collector performance: A critical review. *Renewable and Sustainable Energy Reviews*, 57, 602-647. (Q1: 8.05)

3. Dezfouli, M. M. S., Sopian, K., Al-Shamani, A. N., Hasan, H. A., Abed, A. M., Elbreki, A. M., ... & Mat, S. (2006). Energy saving potential of solar cooling systems in hot and humid region. Volume 12, Sep 2017, Pages 5241-5244.
4. Mohamed Alsanossi, M.A. Alghoul*, Abdelnaser. M. Elbreki, A.A. Ammar, K. Sopian (2017). Parametric study on the thermal performance of solar air heater of jet impingement on corrugated absorber plate. *Journal of Photoenergy. Current Status [Inpress] Q3*: 1.277.
5. M.A. Alghoul, B. Yeganeh, S.A. Shahahmadi, Abdelnaser M. Elbreki, Husam A. Hasan, and K. Sopian. R&D On Existing Test Rigs/Prototypes For Thermoelectric Module Characterization And Power Generation. *Renewable and Sustainable energy Review, Current Status [Revision with editor]*.
6. Ali Najah Al-Shamani, M.A. Alghoul, Abdelnaser. M. Elbreki, K. Sopian and Azher M. Abed (2018). Mathematical and experimental evaluation of thermal and electrical efficiency of PV/T collector using different water based nano-fluids", *Energy*. Volume 145, 15 February 2018, Pages 770-792. Q1: 4.52
7. B.Elhub, Sohif Mat, K.Sopian, A.M.Ebreki, Mohd Hafidz Ruslan, A.A.Ammar. Performance Evaluation and Parametric Study on Variable Nozzle Ejector Using R134a. Case study in thermal engineering. "under review"
8. Safaei, Javad Nali, Rosli Muhamed, Nurul Aida, Elbreki.A.M, Riza, Muhammad Arif, Noh, Mohmad Firdaus Mohamad Ludin, Norasikin Ahmad Ibrahim, MohdAdib Isahak, Wan Nor Roslam Wan Teridi, Mohd Asri Mat. Fabrication of low Temperature Processed Billayer Sliver N ano wire/Strontium Stannate Transparent Conductive Oxide. *Material letter, Elsevier(Q1-Q2)*, Impact factor (2.5).
9. Elbreki, A. M., Sopian, K., Ruslan, M. H., Al-Shamani, A. N., & Elhub, B. A stand-alone Photovoltaic system design and sizing: A greenhouse application in Sabha city as a case study in Libya. Conference: Proceeding of the 3rd Engineering Science and Technology International Conference (ESTIC) 2016, Volume: vol.3, Jan 2017.
10. A.M.Elbreki, K.Sopian, M.A.Alghoul, M.H. Ruslan, B.Elhub, Lim Chin haw, S.S.Baljit, KuZilati Ku Shaari. Temperature Reduction of PV Module Using Novel Fin Design, 2th International Conference on Computational Science and Engineering (ICCSE2017), under publishing in *Advanced Science Letters* (ISSN: 1936-6612: EISSN: 1936-7317) (Conference proceeding under publishing) published by American Scientific Publishers.
11. A.M.Elbreki, K Sopian, M.H.Ruslan, B.Elhub, H.A.Hasan, A.Khalil, F.I.Haider. Pertinent Parameters Respecting Performance of Flat Plate PV/T Collector: An Overview, the Second International Conference on Computational Science and Engineering (ICCSE2017), under publishing in *Advanced Science Letters* (ISSN: 1936-6612: EISSN: 1936-7317) (Conference proceeding under publishing) published by American Scientific Publishers.
12. A.M.Elbreki, K.Sopian, M.A.Alghoul, B.Elhub, N.G Khrit, M.H. Ruslan, Passive thermal regulation of PV module temperature using Truncated fins, 2nd Malaysian University-Industry Green Building Collaboration Symposium (MU-IGBC 2018), under review.
13. Kamaruzzaman Sopian, Husam Abdulrasool Hasan, Ali Najah Al-Shamani, Azher M. Abed ,M.M.S.Dezfouli , B.ELHUB , A.M.Elbreki. Numerical Investigations on Heat Transfer Enhancement by Using SiO₂-Water Nanofluid in a Parabolic Trough Solar Collector, Conference: Proceeding of the 3rd Engineering Science and Technology International Conference (ESTIC) 2016, Volume: vol.3, Jan 2017.

14. K. Sopian, Ali Najah Al-Shamani, Sohif Mat , Husam Abdulrasool Hasan , Azher M. Abed , M. M. S. Dezfouli , A.M Elbreki , B. Elhub. Optimizing Nanofluids with the Optimum of Round Tube Design on the Performance of PVT Collector, Conference: Proceeding of the 3rd Engineering Science and Technology International Conference (ESTIC) 2016, Volume: vol.3, Jan 2017.
15. Youseef.A.Sassi and A.M.Elbreki. Environmental Impact Assessment of Proposed Site for Dema Wind Farm, 3th Global Conference on Renewable Energy Approaches for desert regions (GCREEDER-2011), at Amman Jordan. (Conference paper).
16. Ali Asheibi, Ashraf Khalil, A.M.Elbreki, Zakaryia Rajab, Asma Alfergani. Stability Analysis of PV-Based DC Microgrid with Communication Delay. 9th International Renewable Energy Congress (IREC 2018), (Conference paper).
17. Alhadi Ammar, M.A. Alghoul, Abdelnaser. M. Elbreki, K. Sopian. Concurrent Performance optimization of PV and HP subsystems by merging both of them in one evaporator as a Passive enhancement approach. Solar Energy. Current Status [draft is ready for submission]
18. A.M.Elbreki, Application of solar cells in cathodic protection, 6th International Corrosion Conference in Tripoli on 12-14 November, 2007. (Conference paper)
19. A.M.Elbreki, Photovoltaic Applications with using Nickel Cadmium Batteries” 7th Libyan corrosion, 9 – 11 November, 2009 at Benghazi (Libya). (Conference paper)
20. A.M.Elbreki, Design of PID Controller Using Root Locus Techniques, first Conference on Petroleum Resources and Manufacturing (27-28 October 2010), at Advanced center for Building technical skills, Albraga city, Libya. (Conference paper)
21. A.M.Elbreki, Monitoring and Controlling Water Level, first Afro- Arabic Conference to Engineering Science & Technical (21-22 December 2010), at University of Technical Research for Engineering Science Benghazi city, Libya. (Conference paper)
22. Naser khrit, K. Sopian, M.A. Alghoul, A.M.Elbreki, Comparison of measured and modelled mean Radiant Temperature in the Urban Environment. Proceeding conference, IEEE, MU-IGBC 2018. “Under review”.

SOFTWARE PACKAGES

<i>NO</i>	<i>SOFTWARE NAME</i>
1	Sophisticated User of CFD, ANSYS, FLUENT, Design modeller, Solidworks, and Tecplot
2	Engineering Equation Solver (EES)
3	Design of Experiment (DOE)

LEADERSHIP

<i>NO</i>	<i>POSITION</i>
1	Head of Engineering department at the College of Electrical and Electronic Technology since 2002, and up to 10 Nov 2011
2	Manger of Higher Institute for Comprehensive Professions GAMEAINS, Since Nov 2011 to Des 2013

AWARD S PATENT

Product Name/Title of Invention: A Method for Passive Cooling of Photovoltaic Modules” under UKM

University
File number: UKM IKB/108/2/1626
Research code: TRGS/1/2014/UKM/01/11/1
Filing Date: 28/08/2017

Journal Reviewer:

Reviewer on Renewable & Sustainable Energy Reviews <eesserver@eesmail.elsevier.com
Paper Ref: RSER-D-18-02210
Paper Title: Review of photovoltaic module cooling methods and performance evaluation of the radiative cooling method
Article Type: Original Research Article

INTERESTS AND ACTIVITIES

- Reading;
- Attending social events;
- Playing snooker;

Research Statement

Based on my credentials, work experience, and my publications, my immediate research plan upon joining ACK is to invest my accumulated experience in renewable energy, research topics, and skills to:

1. Start working on research opportunities that are currently in line with ACK,
2. Cooperating with research fellows to develop a “holistic” view on the energy situation and research priorities at ACK.
3. Building diligent collaborations to deploy solar /renewable applications under Kuwait harsh climate conditions.
4. My priority always is to find up-to-date research with a novel idea to work on it.
5. If I am given a chance, facilities and support to work, my contribution could exceed the expectations.

Thank you for your consideration.
Sincerely,

Statement of Teaching Philosophy

The teaching profession is the backbone of every society, where teachers serve as architects of future generations. A teacher ignites the students' mind about new discoveries. Learning is the foundation of education, where teachers share the knowledge and experience with students and prepare them to face the challenges of the world. The most important principle of my philosophy of teaching and learning is engaging students in the process of gaining knowledge, and by providing an opportunity for critical reflection. I believe that learning is a collaborative process. It is important for the teacher to have a strong understanding of the content or material of the course, and the students participating in the course.

I believe in engaging students in a variety of meaningful ways including assignment, group discussion, presentation, and evaluation. Writing assignment is one of the most important activities students can do as a part of their learning process, which helps them in gathering information at a higher level, rather than just remembering the facts. Assignments can be an important tool for assessment, which helps the teachers in providing individualized feedback for each student. Group discussions allow students to critically reflect on material in a collaborative way and learn from each other and also help to develop the ideas. Research papers could be discussed in a group setting, which would aid in understanding the idea or hypothesis of the research paper. Often, during these discussions, different viewpoints are raised, which promote interaction between students and teacher and lead to a conclusion in a collaborative manner.

Communication skill through presentation is one of the important aspects of learning. I believe in providing the opportunity to all the students in my class through a small presentation which would help them in improving their verbal communication and presentation skills. These presentations also lead to discussions and the presenter can get feedback from the teacher and their peers which would help them further to be an effective communicator.

It is important to emphasize that the self-evaluation is very critical part of the teaching profession. Good teachers always evaluate themselves through getting feedback from students, either by filling the self-evaluation form or through discussions. This would improve the course material, course delivery and the overall quality of teaching.