

Taleb H. Al-theanat
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PROFILE: Bachelor and Master of Science in Electrical Engineering combined with an excellent internship at National Electric Power Co. and Eversource Energy.

QUALIFICATIONS:

- Highly-focused, with a strict attention for detail.
- Excellent relationship management skills used to build and retain customer loyalty.
- High level of creativity and innovation.
- Strong advocate of teamwork, performance excellence and continuous improvement.

EDUCATION: **UNIVERSITY OF BRIDGEPORT**, Bridgeport, CT GPA: 4.0 on 4.0 scale
Masters of Science in ELECTRICAL ENGINEERING, May 2016
JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, Irbid, Jordan
Bachelor of Science in ELECTRICAL ENGINEERING, Spring 2013.

B.S. INTERNSHIP: **NATIONAL ELECTRIC POWER COMPANY, JORDAN**
Learned eight courses in the field of electric power system as the following :

- Transformer operation, testing & maintenance.
- Specification of transmission and distribution networks.
- MV switchgear testing & operation.
- House wiring fundamentals.
- Transmission lines simulator and voltage laboratory.
- Programmable logic control (PLC).
- Underground power cables design.
- AC motors control.

M.S. CO-OP PROGRAM: **EVERSOURCE ENERGY, WESTWOOD, MA**

Scope of Work/Project:

- Create network models for computer simulation studies.
- Conduct network simulation studies.
- Perform transient switching analysis studies.
- Calculate parameters and ratings for various network components, including transformers, circuit breakers, and lines.
- Analyze transmission system stability performance.
- Support distributed generation interconnection network impact studies.

Focal areas include: Renewable Energy/Distributed Generation interconnections, Transmission Network Planning, and Distribution System Planning.

B.S. CLASS PROJECT: *Control system of 220v feeders and using PV system to supply the control circuit.*

M.S. THESIS TOPIC: *Interconnecting Distributed Resources with Electric Power Systems Distribution Secondary Networks : Issues and solutions.*

VOLUNTEER AND PROFESSIONAL WORK:

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|-------------------|--|
| 2016 | Systems Planning Engineer (Co-OP), Eversource Energy, MA. |
| 2014 - 2016 | Graduate Assistant at the University of Bridgeport. |
| 2016 | Project's team member, Nespresso Sustainability MBA Challenge 2016. I have lead a team of four graduate students; we have represented the University of Bridgeport for the Nespresso sustainability challenge 2016. Our project was to offer solution on "How can Nespresso build sustainability into its luxury positioning to express brand meaningfulness?" The project included various researches in social responsibility along with sustainability in terms of using renewable energy and biodiversity into the coffee farms. |
| 2014 | Scholar, The third annual Otterbein University Cardinal Colloquium. |
| 2012 | Supervisor, The First PIC Gallery, Jordan University of Science & Technology. |
| 2011 | Founder, The Global Institute of Electrical Engineering [GIEE] LLC, www.giee.org. |
| 2009 till Present | Teaching many Professional courses in Electrical engineering ; Electrical Wiring, Protection Systems, Microcontroller programming, Electric transformers, Grounding systems, Electric towers, underground cables, Fundamentals of solar energy, Electronics components, etc. |
| 2009-2013 | Supervising many scientific trips. |
| 2011-2013 | Chairman, IEEE Student Branch, Jordan University of Science & Technology. |
| 2011 till Present | Conducting many lectures on YouTube [My channel : Taleb Al-theanat]. |
| 2008 till Present | Preparing lectures, notes, and slides for students in different fields like math, physics, and Electrical Eng. |

SKILLS:

- Professional skills in fixing electrical devices and cell phones.
- Communication skills, problem solving, teaching skills, future planning skills, projects management skills, leadership, Entrepreneurial skills and much more.

PROFESSIONAL MEMBERSHIP:

- Institute of Electrical and Electronics Engineers (IEEE).
- Jordan Engineers Association JEA.
- Phi Kappa Phi Honor Society.
- The Global Institute of Electrical Engineering (GIEE).
- Student Entrepreneur Center (SEC) at the University of Bridgeport.
- Golden Key International Honour Society.

COMPUTER SKILLS: *CYME Power Engineering Software, ARCMAP GIS, Microsoft Office Suite, Matlab, PLC, Pspice, Multisim, Sketchup, Power World, PVsyst, Protous, Labview, Adobe photoshop, Mplab, Adobe illustrator, web building, C and C++.*

PROJECTS:

- Nespresso Sustainability MBA Challenge 2016, We have represented the University of Bridgeport for the Nespresso sustainability challenge 2016. Our project was to offer a solution on "How can Nespresso build sustainability into its luxury positioning to express brand meaningfulness?" The project included various researches in social responsibility along with sustainability in terms of using renewable energy and biodiversity into the coffee farms.
- Off-Grid PV Solar System, March 2014; 200 watts Off-grid solar power system. It was designed and built by me for academic purposes. Project URL: <https://www.youtube.com/watch?v=US7ZH3fbs-I>.
- Control system of 220V feeders using PV system, December 2012; The purpose of this project is to control a 220V feeders using a Micro-controller as the logical unit. The control unit was connected to a PV system with a battery. So, you need to enter a password using the pad to access the system, then you can turn on/off any feeder, you can also set a timer. In this project, I employed three concepts: micro-controller, electric circuits and PV system.
- A New Design of a Table Lamp Powered by Solar power System, January 2015; In this project I designed and built a table lamp for home use. It produces electricity by itself using a stand-alone PV system instead of using the utility power.
- An Automatic Street Lighting Using An Off-Grid Solar Power System, May 2015; In this project I designed a photovoltaic solar power system to power an LED light. This system converts solar energy to electricity [DC Electricity] using a photovoltaic module. I considered Bridgeport City, USA as the location to design the system. I used a light/dark circuit (LDR sensor) in order to detect if it is night or not to turn on/off the light.
- Four Ways Traffic Light Using PIC 16f877, October 2011; I used C language to program the PIC.
- A New Electronic Device To Measure The Length & Distance Using PIC 16f877, May 2011; Project URL: <https://www.youtube.com/watch?v=vVLiF4leVW0>.
- A New Vertical Sun Tracking System Using Relay Technology, October 2015; Project URL: <http://giece.org/a-new-vertical-sun-tracking-system-for-a-pv-module-using-relays/>.

HONORS AND AWARDS:

- Electrical Engineering (M.S) Academic Achievement Award, May 2016. University of Bridgeport; I was the first student in the class 2014-2016 with a GPA of 4.0 on 4.0 scale.
- Membership into Golden Key International Honour Society.
- Phi Kappa Phi Membership, March 2016; Membership in Phi Kappa Phi is a stamp of excellence recognized by graduate and professional school admissions and employers.
- Recognition of Selection and Participation, April 2014, Otterbein University; This Certificate was awarded to me for the Recognition of my Selection and Participation in Otterbein University's third annual Cardinal Colloquium, A Celebration of Student Research and Creative Work. "Research into the Functioning and Effectiveness of Alternative Energy Systems and Living Greener", 25 April 2014.
- Appreciation from the Saudi Arabian Cultural mission To The USA, September 2013; Appreciation of contribution in some Saudi Arabian Cultural events.
- Certificate of Merit, July 2013, ELS Language Centers/ Columbus, OH; Students nominated : Best Attitude.
- Certificate of Merit, September 2013, ELS Language Centers/ Columbus, OH; Students nominated : Most Helpful.
- Certificate of Merit, August 2013, ELS Language Centers/ Columbus, OH; Students nominated : Most Respectful.
- Certificate of Appreciation, January 2011, IEEE Student Branch/ Jordan University of Science and Technology; Appreciation for my on-going support and participation with IEEE.
- Certificate of Appreciation, April 2012, IEEE Student Branch/ Jordan University of Science and Technology; Appreciation for my on-going support and participation with IEEE.

PUBLICATIONS:

- Al-theanat, Taleb H. and Mhd Aymen Lpizra. "The Effects of Intermittent Solar Radiation in Off-grid Solar Power System". *IJEIR* 4.4 (2015): 544-549. Research paper.
- Al-theanat, T. H., Al-daraiseh, M. A., & Lpizra, M. A. (2016, April). *The Effects of Intermittent Solar Radiation in Off-grid Solar Power System A Case Study of Two Cities; Sacramento, CA and Miami, FL 'Worst Month' method* . Poster presented at the 2016 faculty research day, University of Bridgeport, CT.

- Al-theanat, T. H. & Lpizra, M. A. (2016b, April). *The Effects of Intermittent Solar Radiation in Off-grid Solar Power System A Case Study of Two Cities; Irbid, Jordan and Abu Dhabi, UAE 'Worst Month' method*. Poster presented at the 2016 American Society for Engineering Education - Northeast Conference, Kingston, Rhode Island.
- Al-theanat, T., Eng. (2016, March 7). Introduction to design your own on-grid solar power system. <http://giee.org/introduction-design-grid-solar-power-system/>. Article.
- Al-theanat, T., Eng. (2015, November 7). Awareness of Renewable Energy. <http://giee.org/solar-and-wind-energy/>. Article.
- Al-theanat, T., Eng. (2015, November 6). Solar and Wind energy. <http://giee.org/solar-and-wind-energy/>. Article.
- Al-theanat, T., Eng. (2015, November 6). Solar Energy : The Future. <http://giee.org/solar-energy-the-future/>. Article.

BOOKS:

Author, Al-theanat, T. H. (2016). Solar Power Systems Design: From the Sun into Electricity (1st ed.).

CURRENT RESEARCH INTERESTS : *Solar Electric Power Systems, Wind Power Systems, Electric Power, Protection and Distribution Systems, Power Electronics and Smart Grid.*

References available upon request