

Mohamed Abuella

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Summary

I am interested in modernizing the electric grid and optimizing its integration of renewables by applying descriptive, predictive and prescriptive analytics. Looking for opportunities to transfer and improve my knowledge and skills. The technical skills are presented as Acquired Expertise in the Experience section.

Education

University of North Carolina at Charlotte (UNCC)

Ph.D in Electrical Engineering, GPA 4.0

USA

2014–2018

Southern Illinois University at Carbondale (SIUC)

M.Sc in Electrical and Computer Engineering, GPA 4.0

USA

2010–2012

Higher Polytechnic Institute & College of Industrial Technology at Misurata

DipHE in Instrumentation and B.Tech Electromechanical Engineering, 86% equiv.to GPA 4.0

Libya

2001–2008

Experience

Ph.D Research

Energy Production and Infrastructure Center (EPIC) at UNC Charlotte

USA

2014–2018

Statistical and Predictive Analytics to Optimize Renewable Energy Grid Integration,

Supervised by Prof. Badrul Chowdhury, and Dr. Tao Hong is among the dissertation committee members.

○ Acquired Expertise: *Energy Analytics, Energy Markets, Renewable Energy & Supply Chain, Machine Learning*

M.Sc Research

Department of Electrical and Computer Engineering at SIUC

USA

2010–2012

Optimization for Electric Power Systems Including Wind Power, Supervised by Prof. Constantine Hatziaodoniu.

○ Acquired Expertise: *Power Systems Analysis, Operation and Planning, Systems Optimization, Smart Grid*

Teaching Assistant and Lab Instructor

College of Industrial Technology at Misurata

Libya

2008–2009

Taught Mathematics, Power Systems Analysis, and Programmable Logic Controller (PLC).

○ Acquired Expertise: *Teaching, Tutorials, Lab Modeling & Simulations*

Electrical Technician

Residential Electrical Wiring and Water & Wastewater Company

Libya

2001–2008

Wiring and maintain electrical control equipment. Repair and rewind AC motors at the pumping stations.

○ Acquired Expertise: *Electrical Wiring & Installations, Maintenance & Operation*

Recognitions

Outstanding Reviewer: IEEE Transactions on Sustainable Energy

2017

Third Prize for Student Papers: The 47th North American Power Symposium

2015

The 12th Place: Global Energy Forecasting Competition

2014

The 1st Place: Department of Electromechanical at College of Industrial Technology

2008

Publications

Wrote dozen of published papers, including:

1. M. Abuella and B. Chowdhury, "Improving Combined Solar Power Forecasts Using Estimated Ramp Rates: Data-driven Post-processing Approach," IET Renewable Power Generation Journal, 2018.

2. M. Abuella and B. Chowdhury, "Forecasting of Solar Power Ramp Events: A Post-processing Approach," Renewable Energy, 2018.

For the complete list of publications, please see my profile at Google Scholar, which is named as: [Mohamed Abuella](#).