Mohamed Abuella

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Summary

An electrical engineer with an intensive training on Computational Analysis, Modeling and Optimization; also has research interests in Artificial Intelligence and Data Analytics for Energy and Smart Grid applications. Looking for opportunities to transfer, improve, and acquire knowledge and skills. Lists of acquired expertise are shown below in the Experience section.

Education

University of North Carolina at Charlotte (UNCC) — **USA**
Ph.D in Electrical Engineering, GPA 4.0 — *2014–2018*

Southern Illinois University at Carbondale (SIUC) — **USA**
M.Sc in Electrical and Computer Engineering, GPA 4.0 — *2010–2012*

Higher Polytechnic Institute & College of Industrial Technology at Misurata — **Libya**
DipHE in Instrumentation and B.Tech Electromechanical Engineering, 86% equiv.to GPA 4.0 — *2001–2008*

Experience

Research Assistant — **USA**
Energy Production and Infrastructure Center (EPIC) at UNC Charlotte — *2014– –*
Statistical and Predictive Analytics to Modernize the Grid and Optimize its Integration of Renewables,
Focusing on Solar Energy Resources. Supervised by Prof. Badrul Chowdhury.
o Acquired Expertise: *Energy Analytics, Energy Markets, Renewable Energy & Supply Chain, Machine Learning*

M.Sc Research — **USA**
Department of Electrical and Computer Engineering at SIUC — *2010–2012*
Optimization for Electric Power Systems Including Wind Power, Supervised by Prof. Constantine Hatziadoniu.
o Acquired Expertise: *Power Systems Analysis, Operation and Planning, Systems Optimization, Smart Grid*

Teaching Assistant and Lab Instructor — **Libya**
College of Industrial Technology at Misurata — *2008–2009*
Taught Mathematics, Power Systems Analysis, and Programmable Logic Controller (PLC).
o Acquired Expertise: *Teaching, Tutorials, Lab Modeling & Simulations*

Electrical Technician — **Libya**
Residential Electrical Wiring and Water & Wastewater Company — *2001–2008*
Wiring and maintain electrical control equipment. Repair and rewind AC motors at the pumping stations.
o 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 Engineering 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, 12(10), 1127-1135, 2018.
2. M. Abuella and B. Chowdhury, "Forecasting of solar power ramp events: A post-processing approach," Renewable Energy, 133, 1380-1392, 2019.
For the complete list of publications, please see my profile at Google Scholar, which is named as: [Mohamed Abuella](#).