

# Mohamed Abuella

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## Summary

An electrical engineer by training, traditionally interested in Mathematical Modeling and Engineering Optimization, who also recently passionate in Artificial Intelligence and Data-driven Analytics. Looking for opportunities to transfer, improve, and acquire knowledge and skills. The technical skills are presented as Acquired Expertise in the Experience section.

## Education

<b>University of North Carolina at Charlotte (UNCC)</b> <i>Ph.D in Electrical Engineering, GPA 4.0</i>	<b>USA</b> 2014–2018
<b>Southern Illinois University at Carbondale (SIUC)</b> <i>M.Sc in Electrical and Computer Engineering, GPA 4.0</i>	<b>USA</b> 2010–2012
<b>Higher Polytechnic Institute &amp; College of Industrial Technology at Misurata</b> <i>DipHE in Instrumentation and B.Tech Electromechanical Engineering, 86% equiv.to GPA 4.0</i>	<b>Libya</b> 2001–2008

## Experience

<b>Ph.D Research</b> <i>Energy Production and Infrastructure Center (EPIC) at UNC Charlotte</i> 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: <i>Energy Analytics, Energy Markets, Renewable Energy &amp; Supply Chain, Machine Learning</i>	<b>USA</b> 2014–2018
<b>M.Sc Research</b> <i>Department of Electrical and Computer Engineering at SIUC</i> Optimization for Electric Power Systems Including Wind Power, Supervised by Prof. Constantine Hatziaodoniu. ◦ Acquired Expertise: <i>Power Systems Analysis, Operation and Planning, Systems Optimization, Smart Grid</i>	<b>USA</b> 2010–2012
<b>Teaching Assistant and Lab Instructor</b> <i>College of Industrial Technology at Misurata</i> Taught Mathematics, Power Systems Analysis, and Programmable Logic Controller (PLC). ◦ Acquired Expertise: <i>Teaching, Tutorials, Lab Modeling &amp; Simulations</i>	<b>Libya</b> 2008–2009
<b>Electrical Technician</b> <i>Residential Electrical Wiring and Water &amp; Wastewater Company</i> Wiring and maintain electrical control equipment. Repair and rewind AC motors at the pumping stations. ◦ Acquired Expertise: <i>Electrical Wiring &amp; Installations, Maintenance &amp; Operation</i>	<b>Libya</b> 2001–2008

## Recognitions

<b>Outstanding Reviewer:</b> IEEE Transactions on Sustainable Energy	2017
<b>Third Prize for Student Papers:</b> The 47th North American Power Symposium	2015
<b>The 12th Place:</b> Global Energy Forecasting Competition	2014
<b>The 1st Place:</b> 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](#).