

Contact

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Top Skills

Power System Studies
Renewable Energy Systems
Energy Storage

Rasedul Hasan

Electrical Engineer (Grid Connection Modelling)
Camperdown, New South Wales, Australia

Summary

Electrical Engineer with 6 years of experience in Power Systems and Renewable Energy. Completed Master's and Ph.D. in Electrical Engineering specializing in grid integration of distributed renewable energy resources. Key skills and experiences are:

- 6 years of experience in working with Energy systems.
- Experienced in grid integration of Renewables, and modeling and analysis of Power System
- Experienced in PSCAD, PSS/E, Power Factory, and MATLAB-Simulink for simulating power systems
- Python scripting for PSCAD, PSS/E.
- Basic Knowledge of Generator Performance Standards (GPS) study, National Electricity Rules (NER)
- Expertise in designing Bi-directional DC/DC Converters for Battery Energy Storage Systems
- Expertise in designing Grid-Connected Solar PV Systems.

Experience

Aurecon

Electrical Engineer (Power System Studies)
October 2022 - Present (1 year 3 months)
Sydney, New South Wales, Australia

Centre for Future Energy Networks

Research Engineer (Energy Power System)
March 2018 - September 2022 (4 years 7 months)
Sydney, New South Wales, Australia

- Designing grid-connected and battery storage PV systems using MATLAB and PSCAD.
- Controlling of real and reactive power penetration in grid connected solar PV systems with Simulink and PSCAD.
- Modelling of renewables, load flow study and harmonic analysis using PSSE and PowerFactory-DlgSILENT.

Power Electronics and Renewable Energy Research Laboratory
Research Assistant (Renewable Energy)
January 2015 - July 2017 (2 years 7 months)
Kuala Lumpur, Malaysia

- Feasibility analysis of different types of grid integration techniques of small- and large-scale solar power generation.
- Design and control of isolated grid-connected microinverter for solar PV system with MATLAB-Simulink and PSCAD.

Education

University of Sydney
Doctor of Philosophy - PhD · (2018 - 2022)

Universiti Malaya
Master's degree, Electrical Engineering · (2015 - 2017)

Khulna University of Engineering and Technology
Bachelor of Science (B.Sc), Electrical and Electronic
Engineering · (2007 - 2011)