Safia Babikir Bashir

ELECTRICAL ENGINEER

+971-56-6071817

Sharjah, United Arab Emirates

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Master graduate Looking for an opportunity to work on an important research work/study in an institution that provides professional development, interesting experiences, and personal growth.

WORK EXPERIENCE

Assistant instructor Ajman University

09/2021 - Present Electrical Engineering Department Ajman, United Arab Emirates

Achievements/Tasks

Responsible for teaching a variety of Laboratory and Tutorial sessions.

Research Assistant

Ajman University

10/2017 - 12/2020 Electrical Engineering Department, Ajman, United Arab Emirates

Achievements/Tasks

Conduct literature reviews

Publish research outcomes in refereed journals and conferences

Trainee

Yokogawa Middle East & Africa B.S.C

05/2017 - 07/2017 Technical Support Division Abu Dhabi, United Arab Emirates

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Research Assistant

Khalifa University- The Petroleum Institute

01/2017 - 03/2017 Abu Dhabi, United Arab Emirates

Achievements/Tasks

- Conduct literature reviews

Publish research outcomes in refereed journals and conferences

Graduate Research / Teaching Assistant

Khalifa University- The Petroleum Institute

08/2014 - 12/2016

Abu Dhabi, United Arab Emirates.

Electrical Engineering Department

Trainee

Dubai Police General Headquarters

06/2013 - 09/2013

Dubai, United Arab Emirates.

- Achievements/Tasks

 Responsible of checking and repairing CCTV, Tetra, DVRs, and ANPR system in Dubai police patrol cars and motorcycles

EDUCATION

 Master of Science in Electrical Engineering Khalifa University- The Petroleum Institute.

08/2014 - 12/2016

Abu Dhabi, UAE

Thesis:

 Design and Control of Multi Modular Voltage Source Converter for an HVDC Connected to Weak AC System.

SKILLS



TECHNICAL SKILLS



PUBLICATIONS

Journal Articles

Power balancing of grid connected PV system based on MMC under different irradiation conditions

Author(s)

Safia Babikir Bashir, Hasan A. Zidan, Zulfiqar Ali Memon May 2020

International Journal of Electrical Power and Energy Systems/Volume117 /105717

Q1 Journal

Journal Articles

An Improved Voltage Balancing Algorithm for Grid Connected MMC for Medium Voltage Energy Conversion,

Author(s)

Safia Babikir and Abdul R. Beig,

February 2018

International Journal of Electrical Power and Energy Systems (Elsevier)/Volume 95/Pages 550-560

Q1 Journal

Journal Articles

Sensor-less vector control of induction motor at lowspeed operation using modular multilevel converter

Author(s)

Hasan Zidan, Safia Babikir

March 2019

Australian Journal of Electrical and Electronics Engineering /Volume 16/Pages 127-135

Journal Articles

A Novel Robust Speed Sensor-Less Control of DC Motor

Author(s)

Hasan Zidan, Safia Babikir

March 2019

International Review of Automatic Control /Volume 12

EDUCATION

Bachelor of Science in Electrical Engineering / Communication

Ajman University (AU)

09/2009 - 09/2013

Ajman, UAE

Honor with distinction degree GPA (3.97/4)

HONOR AWARDS

Full Graduate scholarship (08/2014 - 12/2016)

Khalifa University

- Master of Science in Electrical Engineering

Fifth place among 157 projects participating in Innovator

Innovator 2014

- Project title (Wind turbine-powered water pump

Best Research Paper Award (Sound Source Localization System) (03/2013)

The Ninth Student Scientific Conference - Ajman University

- Paper title: Sound Source Localization System

First prize in the Engineering Design Project Competition (05/2012)

IEEE Open Day

Project title (Wind turbine-powered water pump)

CERTIFICATES

Qiskit Global Summer School on Quantum Machine Learning 2021 (07/2021 - 08/2021)

Completed the two-week intensive course provided by IBM Quantum, completing all graded lab work assignments with a final cumulative score 100%, demonstrating applied understanding and comfort with and about Quantum Computing and Quantum Machine Learning using Qiskit

Python for Data Science and Machine Learning Bootcamp (01/2021 - 05/2021)

Offered through Udemy

Algorithms for Battery Management Systems Specialization (01/2020 - 05/2020)

An online non-credit course authorized by the University of Colorado offered through Coursera that includes the following courses:

Machine Learning by Stanford University (01/2020 - 03/2020) Offered through Courserd

Total Professors Associés (TPA) Safety Engineering Course (04/2017 - 04/2017)

The Petroleum Institute, Abu Dhabi, United Arab Emirates

Teledyne LeCroy Training session on the use of Oscilloscopes for power analysis applications (03/2017 - 03/2017)

The Petroleum Institute, Abu Dhahi, United Arab Emirates

INTERESTS

Machine Learning



Power System



Power Electronics



Control System



Gaming

Renewable Energy

PUBLICATIONS

Conference Proceedings

A Modified CPS-PWM for Capacitor Voltage Ripples Reduction of Modular Multilevel Converter Based Variable Speed Drive

Safia Babikir Bashir, Hasan A. Zidan, Zulfiqar Ali Memon June 2020

IEEE 29th International Symposium on Industrial Electronics (ISIE) Delft, Netherlands

Published in IEEE Xplore

Conference Proceedings

An Improved Voltage Balancing Method for Grid Connected PV System Based on MMC Under Different **Irradiance Conditions**

Author(s)

Safia Babikir and Zulfigar Ali Memon,

August 2018

IEEE 61st International Midwest Symposium on Circuits & Systems, Canada

Published in IEEE Xplore

Conference Proceedings

An Improved Voltage Ripple Control Algorithm for Modular Multilevel Converter Based Variable Speed Drive

Author(s)

Safia Babikir, Hasan Zidan and Stanimir Valtchev, August 2018

18th International Conference On Power Electronics And Motion Control, Budapest, Hungary

Published in IEEE Xplore

Conference Proceedings

An improved space vector PWM for grid connected MMC

Safia Babikir, Abdul R. Beig, and Majid Poshta

November 2017

Renewable Energy Research and Applications (ICRERA), San Diego, USA

Published in IEEE Xplore

Conference Proceedings

Novel SVPWM-Based Switching Algorithm for MMC for **High Power Applications**

Author(s)

Safia Babikir and Abdul R. Beig

October 2016.

IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS), Abu Dhabi, UAE,

Published in IEEE Xplore

REFERENCES

Dr. Balanthi Beig- Associate Professor "Khalifa University

Contact: balanthi.beig@ku.ac.ae

Dr. Hasan A. Zidan- Associate Professor "Ajman University"

Contact: h.alhaj@ajman.ac.ae

LANGUAGES

Arabic



English