

CURRICULUM VITAE



1. PERSONAL DATA

Name: Malik

Naveed Ahmed

Date of Birth: Sept 22, 1987

Place of Birth: Pakistan

Nationality: Pakistan

Contact Address: COMSATS University Islamabad, Attock Campus.

Google Scholar Link: <https://scholar.google.com/citations?user=m91CP10AAAAJ&hl=en&oi=ao>

Research Gate Link: <https://www.researchgate.net/profile/Naveed-Ahmed-Malik>

Tel (Mobile): +92-3339400333

Email: mnaveed.a18@gmail.com

2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

Renewable Energy Integration, Smart Grids, Harmonic Distortion Analysis, Grid-Tied Inverters, Power Quality Analysis, Energy Management Systems (EMS), Load Flow Analysis, Voltage Stability, Switching Power Supplies, Pulse Width Modulation (PWM) Techniques, Reactive Power Compensation, Power System Protection.

(b) Academic Qualifications

Degree: PhD in Electrical Engineering

Major: Electrical Power Engineering

Year: In progress

University: National Yunlin University of Science and Technology

Country: Taiwan

Degree: MS in Electrical Engineering

Major: Electrical Engineering

Year: 2018

University: COMSATS University Islamabad, Attock Campus

Country: Pakistan

Dissertation Title: Novel Application of Grasshopper Optimization Algorithm for integrated power plant systems.

Degree: BSc in Electrical Power Engineering

Major: Electrical Power Engineering

Year: 2012

University: COMSATS University Islamabad, Abbottabad Campus

Country: Pakistan

FYP Title: Control of DC Motor using Dual Converters through Micro Controller

(c) Academic Honors and Awards

Name of the Award	Awarding Institution	Year
PhD Scholarship	Ministry of Education	2021
MS Scholarship	PM Scheme	2016

(d) Membership of Professional Bodies

Name of Professional Body	Membership Grade	Joining Date (MM/YY)
Pakistan Engineering Council (PEC)	Registered Engineer ELECT/35039	03/2012 to Present

(e) Technical Skill

Skill	Level
MATLAB	Expert
CCS	Expert
PSIM	Expert
AD	Expert

(f) Language Proficiency

Language	Proficiency level
English	Expert
Urdu	Expert
Chinese	Basic

3. CAREER DETAILS

(a) Academic Positions Held

Rank	Department	University	Country	Period
English Teacher	English Language Teaching Program	Different Schools in Taiwan assigned by MOE.	Taiwan	03/2022 - 08/2023
Lab Engineer	Electrical & Computer Engineering	COMSATS University Islamabad, Attock Campus	Pakistan	08/2014-09/2021
Instructor	Electrical	Government	Pakistan	03/2012-

		College of Technology, Attock		07/2014
--	--	-------------------------------	--	---------

(b) Professional/Industrial Positions Held

Position Title	Department	Company	Country	Period
Internee	Thermal Power Generation	KAPCO	Pakistan	07/2011-08/2011
Internee	Hydel Power Generation	WAPDA	Pakistan	02/2010-03/2010

(c) Administrative Positions Held

Position Title	Department	University	Country	Period
Departmental Coordination Officer	Electrical and Computer Engineering	COMSATS University Islamabad, Attock Campus	Pakistan	09/2017-09/2020

4. Training

Training Activity	Training Institution	Country	Period
English Language Teaching Program	ELTA	Taiwan	04/09/2022-04/10/2022
Faculty Development	FDA	Pakistan	26/08/2019-29/08/2019
Micro- Teaching	FDA	Pakistan	19/08/2019-23/08/2019
Hands-on Workshop on LaTeX	COMSATS University Islamabad, Attock Campus	Pakistan	18/07/2016-21/07/2106
Designing Industrial Measurements and Automation Systems	National Instruments	Pakistan	08/12/2015 6 hours
PLC Programming and Hands-on Training Workshop	Pakistan Engineering Council (PEC)	Pakistan	07/01/2012-08/01/2012

5. RESEARCH

(a) Research Interests

- a. Advanced Power Electronics,
- b. Vehicle Charging Systems,
- c. High-Efficiency Converters,
- d. Inverters,
- e. Electric Motor and Generator Design,

- f. Hybrid and Electric Vehicles,
- g. Economic Load Dispatch,
- h. Power Distribution Optimization,
- i. Smart Grid Technologies.

(b) Publications/Citations Data

<u>Type of Publication</u>	<u>Number of Publications</u>
Articles in International Refereed Journals	06
<u>Citation Source</u>	<u>Number of Citations</u>
Google scholar	41

6. SERVICE

Name of Institution	Position Title	Country	Period
COMSATS University Islamabad, Attock Campus	Member Art and Literary Society	Pakistan	07/2015-02/2021
COMSATS University Islamabad, Attock Campus	Member Maintenance Committee	Pakistan	12/2016-02/2020

7. List of Publications

1. **Malik, N. A.,** Chang, C. L., Chaudhary, N. I., Raja, M. A. Z., Cheema, K. M., Shu, C. M., & Alshamrani, S. S. (2022). Knacks of fractional order swarming intelligence for parameter estimation of harmonics in electrical systems. *Mathematics*, 10(9), 1570. (**I.F: 2.4**)
2. **Malik, N. A.,** Chang, C. L., Chaudhary, N. I., Khan, Z. A., Zahoor Raja, M. A., Kiani, A. K., ... & Azhari, A. A. (2022). Parameter estimation of harmonics arising in electrical instruments of smart grids using cuckoo search heuristics. *Frontiers in Energy Research*, 10, 1059132. (**I.F: 3.4**)
3. **Malik, N. A.,** Chaudhary, N. I., & Raja, M. A. Z. (2023). Firefly optimization heuristics for sustainable estimation in power system harmonics. *Sustainability*, 15(6), 4816. (**I.F: 3.9**)
4. **Malik, N. A.,** Chang, C. L., Chaudhary, N. I., Raja, M. A. Z., & Shu, C. M. (2024). Astrophysics-based transit search optimization heuristics for parameter estimation of multi-frequency sinusoidal signals. *Modern Physics Letters B*, 2450342. (**I.F: 1.9**)
5. **Malik, N. A.,** Chang, C. L., Chaudhary, N. I., Raja, M. A. Z., & Shu, C. M. (2024). Inter and Sub-Harmonics Estimation: Treatise on Raptor-Inspired Harris Hawks Collective Wisdom. *International Journal of Modern Physics C*. (**I.F: 1.9**)
6. **Malik, N. A.,** Chang, C. L., Chaudhary, N. I. & Kiani, A. "A review on Computational Heuristics in Harmonics Estimation: History, Current topnotch,

Challenges and Future Prospects," Journal of Innovative Technology
(accepted) 2024.

8. References

Provided on demand.