


SHAHZEB AHMAD KHAN

Electrical Engineer

 **Nationality:** Pakistani

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 **Home:** Lakki Marwat, KPK, Pakistan



OBJECTIVE

My objective is to seek professional growth and career advancement in a national or international class organization.

EDUCATION AND TRAINING

Master of Science in Electrical Engineering (MS)

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi 23640, Pakistan

Duration: [27/09/2021 – 31/01/2024]

Final grade: CGPA: **3.79 / 4 (92.2%)**, with Distinction

Thesis: Empirical Analysis of Segregated Load Forecasting and its Impact on Demand Side Management

Bachelor of Science in Electrical Engineering (B.Sc.)

University of Engineering and Technology, Lahore, Pakistan (Affiliated Institute: Namal College Mianwali)

Duration: [09/10/2017 – 31/08/2021]

Final grade: CGPA: **3.707 / 4 (92.08%)**

Final Year Project: Design of Power Converters for Harmonic Mitigation in Smart Micro-Grid

WORK EXPERIENCE

Teaching Assistant

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi 23640, Pakistan [27/09/2021 – 31/01/2024]

Responsibilities: Conducted and evaluated quizzes, assignments. Maintained student grades and assessment results using Excel for accurate record-keeping and reporting. Provided support during midterm and final exams including invigilating. Facilitated the preparation and organization of course folders, ensuring all teaching materials were up-to-date and accessible.

Intern

Huawei Technologies (Private) Limited, Pakistan [07/09/2023 – 14/11/2023]

Responsibilities: Microwave link planning across various regions, including Abu Dhabi, Sharjah, Ajman, Al Ain in UAE, and the Sindh South Region for Ufone in Pakistan. Utilized Huawei's proprietary software, IRiver 2.0 for detailed link planning and simulation of microwave links to ensure optimal network performance and KPIs. Designed boards. Prepared detailed MR reports and documented project progress.

Intern

Lahore Electric Supply Company, Pakistan [12/07/2021 – 10/09/2021]

Gained practical exposure to real-world applications of electrical engineering principles. Conducted site visits. Supported senior engineers and electricians in performing routine construction and maintenance on grid infrastructure. Assisted in the preparation of technical documents and project reports. Participated in team meetings.

Work-Study Assistant (Lab Engineering)

Namal College, Mianwali, Pakistan [11/10/2019 – 19/02/2020]

Responsibilities: Maintained accurate records of labs, utilizing Google Sheets for efficient data management and reporting. Analyzed student performance data to identify best, average, and poor performers in each lab, providing detailed reports for lab engineer's review. Organized and compiled folders for labs, ensuring all necessary documentation was readily available for periodic audits and evaluations by the Pakistan Engineering Council (PEC).

RESEARCH PUBLICATIONS

Conference Publications:

- 1) **S. A. Khan**, M. Junaid and M. Ali, "Design of an Active Power Filter in Cascaded Power Converters for Harmonic Mitigation," 2023 International Conference on Emerging Power Technologies (ICEPT), Topi, Pakistan, 2023, pp. 1-5, doi: 10.1109/ICEPT58859.2023.10152426.

Journal Publications:

- 1) **S. A. Khan**, A. U. Rehman, A. Arshad, M. H. Alqahtani, K. Mahmoud and M. Lehtonen, "Effective Voting-Based Ensemble Learning for Segregated Load Forecasting With Low Sampling Data," in IEEE Access, vol. 12, pp. 84074-84087, 2024, doi: 10.1109/ACCESS.2024.3413679.
- 2) **Article Title:** Metaheuristic Optimizer-Based Segregated Load Scheduling Approach for Household Energy Consumption Management ([Submitted as a First Author, Status: Under Internal Review](#))

ACADEMIC PROJECTS

- Design and Implementation of Mobile Phone Charger¹
- Design and Implementation of Audio Amplifier¹
- Design and Simulation of Buck Converter in PSIM¹
- Designing and Simulation of Universal Relay using MATLAB Simulink¹
- 1MW Solar Power Project at GIK, Institute²
- Design and comprehensive analysis of electric field distribution in different types of electrode arrangements using Comsol Multiphysics²

¹Department of Electrical Engineering, Namal College Mianwali, Pakistan

²Faculty of Electrical Engineering, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi 23640, Pakistan

LANGUAGE SKILLS

Mother Tongue: Pashto

National Language: Urdu

Other Language: English (Proficient User)

DIGITAL SKILLS

MATLAB / Power Sim / Proteus / Python / Arduino / AutoCAD / KiCad / LaTeX / Microsoft Office / Mendeley / Google Drive / Google Docs / Canva

HONORS AND AWARDS

- Class Representative at Namal Institute Mianwali, Pakistan [07/09/2019 – 31/08/2021]
- Outstanding Member of Namal Sports and Adventure Club [Namal College Mianwali, Pakistan, 06/06/2019]
- Scholarship Holder at Namal Institute Mianwali, Pakistan [09/10/2017 – 31/08/2021]
- Dean's Roll of Honor at Namal Institute Mianwali, Pakistan [12/03/2023]
- Scholarship Holder at GIK Institute, Topi 23640, KP, Pakistan [27/09/2021 – 31/01/2024]
- Distinctions and Dean's Roll of Honors at GIK Institute Topi 23640, KP, Pakistan [13/03/2022 & 27/10/2022]

REFEREES

Assistant Professor (Supervisor)

Name: Dr. Attique Ur Rehman

Email: attique@giki.edu.pk

Office G-36, Faculty of Electrical Engineering

GIK Institute of Engineering Sciences and Technology, Topi 23640, Swabi, KP, Pakistan

Associate Professor

Name: Dr. Shahid Alam

Email: s.alam@giki.edu.pk

Faculty of Electrical Engineering

GIK Institute of Engineering Sciences and Technology, Topi 23640, Swabi, KP, Pakistan