

SAMEER KHAN

Fresh Graduate | Electrical Power Engineer

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PROFESSIONAL SUMMARY

Fresh graduate (B.Sc. Electrical Power Engineering, 2026, PEC-recognized UET Peshawar) with hands-on exposure to 132kV grid station operations, switchgear, transformers, protection systems, and industrial power house infrastructure gained at a 132kV grid station and Pakistan Ordnance Factories. Strong analytical and problem-solving foundation demonstrated through design of a PI-controlled D-STATCOM in MATLAB/Simulink for industrial power quality improvement. Certified in PCB design (Altium Designer, KiCAD) and completed NAVTTC Solar PV System Technician training. Eager to apply a strong understanding of electrical distribution and industrial plant operations to the Maple Leaf Cement Graduate Trainee Engineer (GTE) Program 2026 at the Iskandarabad Plant.

EXPERIENCE

Intern – PCB Designer | Chip Soul Technology

Aug 2026 – Present

- Designing and reviewing schematics and PCB layouts using Altium Designer and KiCAD, applying certified PCB design skills to real production projects.
- Collaborating with the engineering team on component selection, routing, and design verification to ensure manufacturability and reliability.

Intern – Solar PV System Technician Course | NAVTTC

Feb 2026 – Jul 2026

- Enrolled in a 6-month NAVTTC Solar PV System Technician course under the Government of Pakistan's skills development program.
- Building practical training in PV system design, installation, and maintenance — supporting renewable energy integration knowledge.

Intern | 132kV Old Jamrud Grid Station

Dec 2025 – Feb 2026

- Gained hands-on exposure to 132kV grid station operations, including switchgear, power transformers, and protection systems — directly relevant to industrial power infrastructure and refinery electrical distribution.

Intern | Pakistan Ordnance Factories (POF)

Jul 2025 – Sep 2025

- Power Systems & Design: Observed Power House operations and electrical distribution within a large-scale industrial facility.
- Control & Instrumentation: Gained exposure to Electronics, Instruments, and Telephone Exchange systems supporting plant operations.

FINAL YEAR PROJECT

Power Quality Improvement in the Distribution System of Peshawar Industrial Area Using an Advanced D-STATCOM

- Designed and implemented a PI-controlled D-STATCOM in MATLAB/Simulink for an industrial distribution network, demonstrating applied analytical and problem-solving skills.
- Achieved power factor correction from 0.5 to 0.99 and reduced Total Harmonic Distortion (THD) below 5%, in compliance with IEEE 519 standards.
- Analyzed root causes of power quality degradation and enhanced solar hosting capacity through dynamic reactive power support and optimized controller tuning.

EDUCATION

B.Sc. Electrical Power Engineering

Oct 2022 – Jul 2026

University of Engineering and Technology, Peshawar (PEC-recognized) | CGPA: 3.61 / 4.00

SKILLS

Software & Tools: ETAP, MATLAB/Simulink, Altium Designer, KiCAD, AutoCAD, Microsoft Office

Technical Areas: Industrial Power Distribution, Grid Station Operations (Switchgear, Transformers, Protection Systems), Power Quality Analysis, D-STATCOM Design, Power Electronics, PCB Design, Solar PV Systems

Languages: English, Urdu, Hindko (native)

CERTIFICATIONS

Basics of Altium Designer — Altium Education

- PCB Basic Design course covering schematic capture and PCB layout fundamentals (May 2025, Online).

Mastering KiCAD — Coursera

- End-to-end PCB design training covering schematic capture and PCB layout fundamentals (Apr 2025, Online).