Muhammad Usman Saleem, Engg., PhD.

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PROFILE	An enthusiastic, competent, self-motivated and result-oriented professional with 13+ Years of experience in complex and multicultural environments in the areas of Research and Development, Teaching, Energy Auditing, MEP and HVAC Design, Energy Planning & Conservation, Standard Operating Procedures & System Optimization, Energy Efficiency, Administration, Construction, Solar System, Operation and Maintenance(O&M), Root Cause Analysis and daily basic reporting.
EXECUTIVE SUMMARY	M. Usman Saleem obtained his B.Sc., M.S., and Ph.D. degrees in Electrical Engineering from the University of Engineering and Technology, Lahore, the University of Gujrat, and the Superior University, Lahore in 2010, 2016, and May 2023, respectively. Over the past 13 years, he has been actively engaged in electrical systems design, energy management, energy auditing, and operation & maintenance within various multinational and national organizations. He possesses expertise in detailed design using cutting-edge analytical software based on modeling and simulation. Currently, he serves as an Assistant Professor in the CS/IT department in the GCWUS. His research interests encompass Internet Things (IoT), Machine Learning, Data Science, Artificial Intelligence (AI), Cloud Computing, Smart Energy Management Systems, Cyber-Physical Systems, Smart Grids, Demand Side Management, Energy efficiency/conservation, and Renewable Energy Resources.
HIGHLIGHTS	**Teaching Experience:** ▪ Serves as an Assistant Professor in the CS/IT department at GCWUS. ▪ Served as an HoD Electrical Engg. at USKT ▪ Supervised 2 MS students at USKT ▪ Serves as an Visiting Faculty at USKT **Administration Experience:** ▪ Managed and delivered four 6-acre projects from excavation to finishing. ▪ Oversaw project feasibility, planning, designing, construction, execution, and O&M of 160+ shops nationwide and 4 production units. ▪ Led the installation, operation & maintenance of electrical equipment, including generators, HVAC systems, Transformers, UPS, lighting, telecommunication, security equipment & distribution systems. **Research Experience:** ▪ Over the past 13 years, actively engaged in electrical systems design, energy management, energy auditing, and operation & maintenance within various multinational and national organizations. ▪ Expertise in detailed design using cutting-edge analytical software based on modeling and simulation. ▪ **Research interests** encompass IoT, Machine Learning, Data Science, AI, Cloud Computing, Smart Energy Management Systems, Cyber-Physical Systems, Smart Grids, Demand Side Management, Energy efficiency/conservation, and Renewable Energy Resources. **Planning and Development:** ▪ Currently managing projects at GCWUs main and under-construction campuses.

- Led the installation of a 200 kVA solar system at USKT.

Training and Development:
- Proficient in preparing contingency plans, participating in technical discussions, and developing action plans.
- Expertise in evaluating outsource options for maintenance.
- Provides on-site and in-house training for equipment utilization and staff safety.

Energy Conservation Initiatives:
- Leads energy conservation initiatives, including Power Quality Lab, Energy Conservation Drive, Training, and GAP Assessment.
- Prepared contingency plans and participated in technical discussions for energy conservation