

MD ZOBAER SHIKDAR

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Full-Time Right to Work in the UK Without Restriction

PERSONAL STATEMENT

I am an innovative and results-driven electrical engineer with four years of experience in delivering energy projects for multinational organizations. My expertise lies in evaluating and implementing sustainable and affordable energy solutions, ensuring project execution within time, budget, and quality constraints. I have recently completed my MSc in Electrical Power & Energy Systems (Merit) from Teesside University, where I gained advanced knowledge in cutting-edge power systems and renewable energy technologies.

WORK EXPERIENCE

Lecturer, Electrical Engineering, South Tyneside College, UK (From September 2024)

Electrical Project Engineer

United Payra Power Ltd (150 MW) ; Bangladesh (May 2019 – Aug 2021)

- Led project teams, including subcontractors and installation engineers, for a 150 MW power plant. Experience with motor VSD controls and MCC equipment.
- Ensured projects were completed within budget, quality, and safety constraints.
- Managed the entire project lifecycle from design through to commissioning and handover.
- Conducted transformer testing, mechanical protection checks, and parallel operations configuration for OLTC AVR relay (MR).
- Coordinated Wartsila engine installation and supervised the construction and commissioning phases.

Electrical Design Engineer

Excel Technologies Ltd ; Bangladesh (Mar 2017 – May 2019)

- Conducted site surveys, project mobilization, material handling, and document control.
- Designed Substation layouts including cable routes, trenching, earthing, lighting, and protection systems. Experience with Amtech design software.
- Managed substation project deliverables, including functional checks, GIS equipment testing (CT, PT, CB), and commissioning.
- Led the installation, testing, and commissioning phases within time
- Scheduled grid shutdowns and coordinated grid augmentation projects, minimizing load shedding while working under live conditions.
- Designed substation layouts and calculations for cable routes, Earthing, and protection systems, including SLDs, PSLDs, and AC/DC systems. Coordinated interface drawings for 132KV, 33KV, and 11KV systems (ABB, Siemens, Schneider Electric, Mitsubishi Electric).

EDUCATION

MSc in Electrical Power & Energy Systems with Advanced Practice
Teesside University, Middlesbrough, UK (Sept 2021 – May 2023)

Key Modules: Power Conversion, Microgrid, Smart Grid, Renewable Energy, Future Energy Demand and Sustainability , Advanced Practice (Renewable Energy)

Grade: Merit

BSc in Electrical & Electronics Engineering
Khulna University of Engineering & Technology (KUET), Bangladesh (Feb 2013 – Mar 2017)

Major Modules: Power System, Power System Protection, Power Electronics, Power Plant Engineering and Renewable Energy System.

MSc RESEARCH PROJECTS

- **Smart Microgrid Design & Simulation:** Developed a smart microgrid for a remote island using renewable energy (solar & wind) with PVGIS & MATLAB.
- **Medium Voltage Distribution Networks Analysis:** Incorporated new loads and embedded generation using IPSA for load flow analysis. (JEDEC and AEC-Q100).
- **EV Charging Optimization:** Optimized EV charging (G2V) & discharging (V2G) in the UK using renewable resources in a modified IEEE 14-bus system with Digsilent Power Factory.

KEY SKILLS

- **Software:** AutoCAD (2D & 3D), MATLAB, IPSA, Digsilent Power Factory 2022, Microsoft Excel, PowerPoint. Fully conversant with electrical circuit diagrams and 2D drawings
- **Technical Skills:** Power system load flow analysis, machine learning, load forecasting. BS7671:2018 IET Wiring Regulations. An understanding of pneumatic & hydraulics.
- **Soft Skills:** Strong communication in English, effective time management, ability to work efficiently under pressure.

VOLUNTEERING & LEADERSHIP : Chairperson, Bangladesh Society, Teesside University

- Led a 100+ member society, managing events and coordinating with university stakeholders.
- Enhanced leadership and organizational skills by engaging international students.

REFERENCES

Available upon request