

Aisha Rahman, EIT

Electrical Engineer | Power Systems & Controls

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PROFILE

Electrical Engineer with 3.5 years of experience designing power distribution, protection, and control systems for industrial and utility projects. Delivered 22 projects with total installed value of \$64M, cut design review cycles by 25%, and maintained a zero-incident record at commissioning. Skilled in AutoCAD Electrical, ETAP, PLC programming, and NEC/IEEE standards. EIT certified and preparing for the PE exam.

TECHNICAL SKILLS

Power & Protection: Load Flow, Short-Circuit & Arc-Flash Studies, Protective Relay Coordination, Switchgear, MCCs, Transformers, Grounding, NEC, NFPA 70E, IEEE Standards

Controls & Electronics: PLC Programming (Allen-Bradley, Siemens), SCADA, HMI, VFDs, Ladder Logic, Sensors, Instrumentation, PCB Basics (Altium)

Software: ETAP, SKM PowerTools, AutoCAD Electrical, Revit MEP, MATLAB/Simulink, Python, Excel, Bluebeam

EXPERIENCE

Electrical Engineer

Jun 2023 – Present

Gulf Coast Power & Controls — Houston, TX

- Design medium- and low-voltage distribution systems (480V–13.8kV) for petrochemical and industrial facilities; delivered 22 projects valued at \$64M.
- Performed load-flow, short-circuit, and arc-flash studies in ETAP, reducing incident energy at 14 panels below 8 cal/cm² through protection upgrades.
- Developed protection coordination for 30+ relays, improving selectivity and reducing nuisance trips by 40%.
- Programmed and commissioned Allen-Bradley PLC and VFD systems; completed 12 site acceptance tests with zero safety incidents.
- Cut drawing review cycles by 25% by creating standardized AutoCAD Electrical templates and QA checklists.

Electrical Design Engineer (Entry-Level)

Jul 2022 – May 2023

Lone Star Utilities — Austin, TX

- Prepared substation and feeder designs, including one-line diagrams, grounding, and conduit schedules for 6 distribution projects.
- Analyzed voltage regulation and power factor for 40 feeders, identifying capacitor upgrades that improved efficiency by 3%.
- Supported field construction with RFIs and as-builts, resolving 95% of issues within 24 hours.
- Wrote Python scripts to automate load calculations, saving 8 engineer-hours per week.

SENIOR DESIGN PROJECT

Designed and built a 3 kW grid-tied solar inverter with MPPT control (MATLAB/Simulink, STM32); achieved 96% efficiency at rated load.

EDUCATION

Bachelor of Science in Electrical Engineering

University of Texas at Austin

2022 | GPA 3.7

CERTIFICATIONS

- Engineer in Training (EIT), State of Texas
- NFPA 70E Electrical Safety Certified
- Allen-Bradley PLC Programming Certificate
- IEEE Member