

Karter Becker

Electrical Power Systems Engineer

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SUMMARY

Dedicated Electrical Engineer with over 5 years of experience in power systems and industrial automation. Proven success in configuring, testing, and commissioning electrical protection systems for critical data center projects. Expertise encompasses relay logic development using IEC 61850 standards and hands-on execution on PLC systems. Skilled communicator focused on fostering relationships between clients and cross-functional teams to produce effective engineering solutions. Experienced in managing complex project lifecycles from design through site support, ensuring rigorous adherence to industry standards throughout.

EXPERIENCE

Electrical Power Engineer

Innovative Power Solutions 📅 June 2023 - Present 📍 Fort Worth, TX

Focuses on configuring and commissioning protection relays for high-stakes data center projects, advancing system reliability and compliance with standards.

- Configured and commissioned high-performance protection relays, reinforcing infrastructure security for data centers.
- Conducted thorough performance tests with secondary injection test sets like Omicron CMC356, significantly boosting reliability.
- Developed robust relay logic utilizing IEC 61850 protocols, optimizing inter-device communication in power systems.
- Collaborated closely with clients and internal experts to craft customized backup power solutions, enhancing client satisfaction.
- Orchestrated project planning and execution phases, finishing tasks on schedule while respecting allocated budgets.
- Mentor junior engineers, guiding them through best practices in system design and commissioning approaches.

Project Engineer

TechnoPower Dynamics 📅 August 2021 - May 2023 📍 Houston, TX

Oversaw customer-facing engineering projects, creating strong alliances with clients and securing successful outcomes for project goals.

- Managed impactful projects with direct client interaction, achieving alignment on deliverables and objectives.
- Configured and optimized Schneider Electric Modicon PLC systems, improving operational metrics across applications.
- Supported the full lifecycle of generator control solutions, enhancing uptime for vital operations in the field.
- Actively engaged in FAT/SAT protocols, facilitating seamless transitions from project completion to client handover.
- Resolved technical challenges during site execution, showcasing problem-solving instincts and timely interventions.
- Coordinated efforts with EPC contractors, aligning progress schedules with necessary engineering outputs.

Junior Electrical Engineer

ElectroTech Services 📅 January 2021 - July 2021 📍 San Antonio, TX

Assisted in design and implementation of electrical control systems for industrial automation initiatives.

- Contributed to designing and testing diverse electrical control systems, supporting overall project requirements.
- Performed detailed site evaluations and data collection, enhancing developmental phases of ongoing projects.
- Played a role in HMI system developments that improved user interfaces, contributing to better operational transparency.
- Participated in projects associated with backup power systems, prioritizing safety enhancement strategies.
- Prepared comprehensive reports for stakeholders, emphasizing accountability and a clear understanding of project milestones.
- Engaged in trainings aimed at emerging technologies within the power systems field, fostering knowledge growth.

LEADERSHIP & AWARDS

- Academic Excellence Award in Electrical Engineering
- Dean's List, University of Texas at Austin

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Texas at Austin 🎓 GPA: 3.9 📅 2021 📍 Austin, TX

Coursework: Control Systems, Signal Processing, Renewable Energy Systems, Industrial Automation

CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2023
- Electrical Engineering Fundamentals Certification 📅 2023

TECHNICAL SKILLS

- **Power System Tools:** SEL Relays, Siemens, Schneider Electric
- **Testing Equipment:** Omicron CMC356, Megger, Secondary Injection Test Sets
- **Control Logic Standards:** IEC 61850, GOOSE Messaging, Relay Logic Development
- **PLC Programming:** Schneider Electric Modicon, M340, M580
- **HMI Platforms:** Vijeo Designer, Web HMI, EPAS
- **Project Management Methodologies:** Agile, Lean, Quality Assurance
- **Compliance Standards:** IEEE, NEC, NESC
- **Customer Engagement Techniques:** Stakeholder Meetings, Presentations, Negotiate Contracts
- **Data Analysis Techniques:** Statistical Methods, Data Visualization, Reporting
- **Safety Certifications:** Arc Flash Protection Training, Lockout Tagout

SKILLS

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|---------------------|---------------------------|--------------------------|---------------------------|
| • Protection Relays | • Project Management | • Data Center Operations | • Project Execution |
| • PLC Systems | • Client Relations | • System Design | • Generator Control |
| • IEC 61850 | • Testing & Commissioning | • Backup Power Systems | • Performance Testing |
| • HMI Configuration | • Commissioning | • Load Shedding | • Relay Logic Development |

PROFESSIONAL AFFILIATIONS

- Member, IEEE (Institute of Electrical and Electronics Engineers)
- Volunteer, Habitat for Humanity

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST