Electrical Design Engineer

Sarah Parker

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United States, Chicago, IL

Professional summary

Experienced Engineer with expertise in designing power distribution systems and circuits. Strong background in PCB design, schematic capture, and circuit analysis with a focus on energy-efficient solutions and sustainable designs.

Experience

Electrical Design Engineer

March 2018 - Now

GreenTech Solutions / United States, Chicago, IL

- Lead the design of power systems for renewable energy projects, including solar and wind energy solutions.
- Design and test circuit boards for power distribution, ensuring compliance with IEEE standards.
- Collaborate with mechanical engineers to integrate electrical systems into overall product designs.
- Conduct system-level simulations and analyze power performance for energy efficiency.
- Review and approve designs and prototypes for manufacturing and assembly.

Senior Electrical Engineer

August 2013 - February 2018

Edison Power Systems / Chicago, IL

- Utilized AutoCAD Electrical and Altium Designer to create schematics and PCB layouts.
- Led troubleshooting efforts, diagnosing electrical failures and implementing effective solutions.
- Worked with R&D teams to develop prototypes and improve electrical system performance.

Junior Electrical Engineer

June 2010 - July 2013

SmartTech Devices / Chicago, IL

- Assisted senior engineers in the design and testing of PCB layouts and electrical components for electronic devices.
- Performed system testing and data analysis to validate design assumptions and performance.

Education

Bachelor of Science in Electrical Engineering

University of Illinois at Chicago

United States, Graduated: May 2010

Certifications

- **Certified LabVIEW Developer**, National Instruments, November 2020
- **Certified PCB Designer (CID)**, IPC International, May 2019

Skills

- Proficient in AutoCAD Electrical, Altium Designer, and LabVIEW
- Circuit design and PCB layout
- Power distributio-n and electrical systems integration
- Energy-efficient design solutions
- Schematic capture and testing
- Troubleshooting and problem-solving