

Beckham Roberson

Electrical and Instrumentation Engineer

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SUMMARY

Accomplished Electrical and Instrumentation Engineer with over five years of diverse experience in high-tech manufacturing environments. Proven expertise in designing, optimizing, and maintaining advanced electrical systems and instrumentation technologies. Recognized for strong problem-solving abilities, particularly in root cause analysis. Comfortable collaborating across functions to deliver cutting-edge solutions that support operational excellence and safety compliance. Time spent gathering insights from team collaboration ensures effective communication enhances system functionality. Eager to contribute innovative strategies that propel efficiency and reliability while adhering to rigorous quality standards.

EXPERIENCE

Electrical Engineer

Advanced Engineering Group 📅 June 2021 - Present 📍 Oklahoma City, OK

Responsible for designing and optimizing complex electrical systems within manufacturing processes. Focused on enhancing production capabilities through technical innovation while prioritizing safety and structural integrity. Regularly collaborates with cross-functional teams to improve system operations.

- Designed and implemented advanced electrical systems for manufacturing, achieving a significant boost in production efficiency.
- Resolved critical issues in PLC programming and instrumentation resulting in substantial reductions in downtime.
- Worked alongside manufacturing teams to identify potential improvements and successfully executed alterations to optimize equipment performance.
- Conducted extensive testing and diagnostics, confirming compliance with industry-safety guidelines and boosting accountability.
- Established robust preventative maintenance programs which have been integral in maximizing equipment reliability and lifespan.
- Authored comprehensive technical documentation including schematics and manuals to facilitate training and reference.

Instrumentation Engineer

Innovative Solutions Inc. 📅 March 2018 - May 2021 📍 Norman, OK

Served as an Integral member of the instrumentation engineering team, focusing on system optimization and technological integration. Processed improvements led innovative teams in developing modern solutions that benefitted manufacturing security.

- Ensured adherence to efficiency regulations, reducing operational costs and improving reliability.
- Developed and institutionalized new instrumentation methodologies, successfully initiating compliance upgrades.
- Built strong partnerships with suppliers, fostering relationships that bolstered technological advancements in instrumentation technology.
- Performed thorough analyses and tests universally recognized for meeting elevated safety standards.
- Provided mentorship during technical upgrades, ensuring deliveries followed designated timelines without budget exceedance.
- Engaged in employee training on emerging technologies, nurturing a culture committed to safety and excellence.

Junior Electrical Engineer

Tech Dynamics 📅 January 2016 - February 2018 📍 Stillwater, OK

Supported senior engineers with various projects, contributing dynamically to team discussions. Increased understanding of electrical systems as well as broader engineering concepts while upholding essential tools and practices.

- Participated actively in electrical system designs, significantly enhancing overall project contributions.
- Played a key role in troubleshooting initiatives, known for delivering solid support during critical recovery efforts.
- Collaborated closely with seasoned professionals on complex design enhancements for upgraded systems.
- Cultivated knowledge in prevalent professional software programs; enhanced analytical capabilities used in system evaluations.
- Took part in essential audits and ensured compliance protocols were adhered to steadfastly throughout operational workflows.
- Developed impactful funding proposals aimed at bolstering engineering division projects.

LEADERSHIP & AWARDS

- Outstanding Achievement Award for Excellence in Engineering Projects, Innovative Solutions Inc., 2020
- Best Innovator Award, Advanced Engineering Group, 2022

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Oklahoma 🎓 GPA: 3.6 📅 2015 📍 Norman, OK

Coursework: Control Systems, Circuit Analysis, Signal Processing, Power Systems

CERTIFICATIONS

- Certified Control Systems Technician (CCST) 📅 2026
- OSHA Safety Certification 📅 2024

TECHNICAL SKILLS

- **Control Systems:** Siemens, Allen-Bradley, Schneider Electric
- **Software tools:** EPLAN, MATLAB, AutoCAD
- **Engineering Standards:** IEEE, ANSI, IEC
- **Testing Equipment:** Multimeter, Oscilloscope, Function Generator
- **Programming Languages:** Ladder Logic, Python, C++
- **Communication Tools:** MS Teams, Slack, Zoom
- **Project Management:** Trello, Asana, Microsoft Project
- **Compliance Standards:** ISO 9001, OSHA, CE Marking
- **Network Protocols:** Ethernet/IP, Modbus, Profibus
- **Data Analysis Tools:** MATLAB, Excel, LabVIEW

SKILLS

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|--------------------------|----------------------------|--------------------------------|----------------------------|
| • PLC Programming | • MATLAB | • Instrumentation Technologies | • Diagnostics Testing |
| • Control Systems Design | • Team Collaboration | • Troubleshooting | • Manufacturing Operations |
| • Root Cause Analysis | • Preventative Maintenance | • System Simulation | • Innovative Solutions |
| • EPLAN | • Technical Documentation | • Safety Standards Compliance | |

PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE), 2019 - Present
- Active Participant, Society of Women Engineers (SWE), 2018 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST