

Luke Acosta

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SUMMARY

Motivated Data Center Operations Intern currently pursuing Electrical Engineering. Gained hands-on experience troubleshooting and maintaining Uninterruptible Power Supply (UPS) systems, ensuring high reliability for critical infrastructure. Collaborated closely with teams to adhere to preventive maintenance schedules and compliance standards. Developed strong problem-solving skills through real-world academic projects and internships. Prepared documentation for maintenance logs and operational performance metrics. Committed to continuous learning and knowledge sharing among peers, integrating latest UPS technology advancements.

EDUCATION

Bachelor of Science in Electrical Engineering 2027
Indiana University-Purdue University Fort Wayne GPA: 3.7 Fort Wayne, IN
Coursework: UPS Systems, Circuit Design, Renewable Energy, Control Systems

TECHNICAL SKILLS

- Monitoring Tools:** APC, Tripp Lite, Eaton
- Power Systems:** Uninterruptible Power Supply (UPS), Battery Management Systems, Voltage Regulator
- Maintenance Protocols:** Preventive Maintenance, Scheduled Repairs, Diagnostics
- Documentation Standards:** Technical Manuals, Service Logs, Compliance Records
- Communication Skills:** Team Collaboration, Training Materials, Status Reports
- Safety Certifications:** OSHA, CPR, First Aid
- Testing Equipment:** Multimeter, Load Tester, Cable Analyzer
- Troubleshooting Methodologies:** Root Cause Analysis, Signal Testing, System Integration
- Project Management Tools:** Trello, Asana, Microsoft Project
- Engineering Software:** AutoCAD, MATLAB, PSpice

SKILLS

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| • UPS Systems Maintenance | • Documentation and Compliance | • Power Infrastructure Support | • Hands-on Technical Skills |
| • Technical Troubleshooting | • Team Collaboration | • Compliance Adherence | • Regulatory Knowledge |
| • Preventive Maintenance Planning | • Diagnostic Analysis | • Performance Reporting | • Project Coordination |
| • Remote Monitoring Tools | • Installation Oversight | • Safety Awareness | • Research and Development |

EXPERIENCE

UPS Systems Maintenance Intern June 2025 – August 2026
University Project Remote

Collaborated on a project involving the upkeep of UPS systems while adhering to best practices. Focused on reliable operations across various settings, this role emphasized diagnostics and teamwork.

- Conducted routine maintenance on UPS systems, significantly improving reliability in simulated environments.
- Developed comprehensive preventive maintenance schedules aligned with established guidelines to enhance operational efficiency.
- Led installation efforts for new UPS configurations, minimizing downtime during critical power transitions.
- Executed detailed diagnostics for system failures, leading to effective identification and resolution of issues in real-time.
- Utilized advanced remote monitoring tools for tracking UPS functionality, providing regular reports for team assessment.
- Ensured thorough documentation practice for all service activities, including maintenance logs and technical manuals.

Electrical Engineering Research Assistant September 2024 – May 2025
Student Lab Fort Wayne, IN

Assisted in research that focused on power systems, gaining real-world application of engineering principles within a collaborative lab environment.

- Contributed to design and execution of experiments to assess UPS technology and its applications in safety protocols.
- Supported peer training on efficient handling and safety measures associated with UPS operations, ensuring team competencies.
- Engaged in hands-on projects related to electrical equipment troubleshooting, heightening practical skills in real scenarios.

- Undertook research tasks on regulatory compliance concerning UPS systems, keeping up-to-date with technological advancements.
- Assisted with lab preparations, fostering an organized and safe atmosphere to promote effective experimental execution.
- Actively contributed during team discussions, proposing insights and recommendations from research findings.

LEADERSHIP & AWARDS

- Dean's List, Indiana University-Purdue University Fort Wayne (2024, 2025)
- Recipient of the Engineering Scholarship for Academic Excellence (2025)

CERTIFICATIONS

- OSHA 10-Hour General Industry Certification 📅 2025
- CPR and First Aid Certified 📅 2026

PROFESSIONAL AFFILIATIONS

- Member of the IEEE Student Chapter, attending workshops on contemporary electrical engineering topics.
- Volunteer at Campus Tech Help Desk, providing vital technical support to students and faculty.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST