

# Nicholas Alexander

## Electrician AC Engineer

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### SUMMARY

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Motivated Electrician with over 4 years' experience in electrical system installation, maintenance, and repair particularly focusing on HVAC and medium voltage systems. Built a solid reputation for troubleshooting complex electrical issues while working under pressure. Strong commitment to safety compliance secured consistent positive feedback from supervisors and peers. Proven leadership in mentoring junior technicians, enhancing their skills through organized training sessions. Adept collaborator across multidisciplinary teams leading project initiatives resulting in enhanced operational efficiency. Ready to contribute effectively at Metra Engineering Solutions and excited about this opportunity.

### EXPERIENCE

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#### Electrician

Tech Electric Solutions 📅 January 2024 - Present 📍 Chicago, IL

Supported a team in various electric installations and maintenance projects, focusing on HVAC systems and electrical infrastructure updates.

- Implemented HVAC system installations adhering to industry standards and regulations.
- Executed repairs and critical troubleshooting for medium voltage switchgear and distribution setups.
- Partnered with engineering analysts for effective infrastructure evaluations and strategic improvements.
- Maintained comprehensive records on project activities and materials ensuring liquid inventory flow.
- Led training of junior team members on advanced safety practices boosting team knowledge and compliance.
- Responded promptly to emergency service calls, providing real-time troubleshooting during critical hours.

#### Junior Electrician

Bright Future Electric Co. 📅 June 2021 - December 2023 📍 Schaumburg, IL

Engaged as part of the junior workforce assisting senior electricians with varied electrical tasks across both commercial and residential sites.

- Facilitated installations and repairs for various electrical systems effectively improving company turnaround on projects.
- Gained hands-on expertise in aerial work utilizing lifting equipment for elevated tasks safely.
- Collaborated with experienced electricians reinforcing problem-solving techniques during troubleshooting efforts.
- Oversaw inventory control contributing to material procurement clarity for active projects.
- Partook in regular safety assessments fostering a proactive, safety-forward environment.
- Documented ongoing job progress contributing to overall project management efficiency.

#### Electrical Engineering Intern

University of Illinois 📅 June 2020 - May 2021 📍 Champaign, IL

Assisted academic professionals within electrical engineering courses, focusing on practical applications relating to classroom theory and projects.

- Supported renewable energy systems research projects broadening knowledge of alternative technologies.
- Contributed to innovative designs and testing of circuits using advanced simulation software.
- Responsible for meticulously documenting research findings for local academic dissemination.
- Proficiently used diagnostic tools in lab environments to ensure compliance with electrical standards.
- Participated collaboratively on multi-disciplinary teams showcasing effective communication with peers.
- Conducted thorough literature reviews aiding project frameworks relevant to current compliance mandates.

### LEADERSHIP & AWARDS

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- Dean's List, University of Illinois (2020, 2021)
- 1st Place, Engineering Hackathon (2021)

### EDUCATION

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#### Bachelor's Degree in Electrical Engineering

University of Illinois 🎓 GPA: 3.8 📅 2021 📍 Champaign, IL

*Coursework: Digital Circuits, Power Systems, Control Theory, Renewable Energy*

### CERTIFICATIONS

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- EPA Universal Refrigeration Certification 📅 2022
- Commercial Driver's License (CDL) Class B 📅 Pending

## TECHNICAL SKILLS

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- **Diagnostics Tools:** Fluke Multimeter, Oscilloscope, Clamp Meter
- **Simulation Software:** MATLAB, Simulink, AutoCAD
- **HVAC Equipment:** Thermostats, Compressors, Air Filters
- **Safety Protocols:** OSHA Guidelines, Risk Assessments, Breaker Testing
- **Power Systems:** Switchgear, Generators, Circuit Breakers
- **Tools & Equipment:** Power Hand Tools, Ladders, Bucket Trucks
- **Cable Management:** Wire Looms, Cable Trays, Conduits
- **Training & Development:** Mentorship Programs, Safety Workshops, Technical Training
- **Documentation Practices:** Project Logs, Inventory Records, Work Orders
- **Construction Techniques:** Blueprint Readings, Site Surveys, Material Sourcing

## SKILLS

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- Electrical Systems Installation
- HVAC Maintenance
- Medium Voltage Systems
- Safety Compliance
- Inventory Management
- Troubleshooting and Problem Solving
- Aerial Lifting Operations
- Documentation Skills
- Project Coordination
- Technical Communication
- Regulatory Compliance
- Emergency Response
- Team Leadership
- Analytical Thinking
- Problem Analysis

## PROFESSIONAL AFFILIATIONS

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- Member, Electrical Engineering Society
- Volunteer, Habitat for Humanity – Electrical Installation Team

## LANGUAGES

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- English (Native)
- Spanish (Proficient)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST