

Angel Payne

Electrical Maintenance Technician, Industrial and Utility Systems

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STRENGTHS

- ⚡ **Emergency restoration**
During urgent pump failures, testing stayed structured and calm, helping crews restore service without skipping safety steps.
- ⚙️ **Controls diagnosis**
PLC and VFD faults became easier for crews to isolate after practical testing steps were shared in the field.
- ♥️ **Safe work preparation**
Each confined space job started with clear energy control and PPE checks, giving teammates confidence before entry.
- 🔧 **Conduit installation**
Hands on bending, threading, and conductor pulling kept difficult utility runs clean, serviceable, and ready for inspection.
- 👥 **Team guidance**
Junior technicians often brought tough repairs forward, then worked through diagnosis and restoration with focused direction.

SKILLS

Electrical maintenance

Three phase systems Switchgear

Motor control centers Generators

Motors Pumps

PLC troubleshooting

Variable Frequency Drives

Soft starts Ladder logic

Single line diagrams

Conduit installation

Lockout Tagout Confined space

SUMMARY

Electrical maintenance technician with eight years of progressive industrial and utility experience supporting **water and wastewater** facilities, production equipment, and essential infrastructure. Current **Maryland State Master Electrician** License supports safe ownership of complex electrical work, from single phase and three phase services through switchgear, **motor control centers**, generators, pumps, blowers, valve operators, PLCs, **Variable Frequency Drives**, soft starts, and control circuits. Hands on work includes reading single line and ladder logic diagrams, installing EMT, IMC, PVC, and rigid conduit, pulling conductors, bending conduit, and restoring service during emergencies. Guides junior technicians, documents work orders and materials, supports procurement, and follows Lockout Tagout, confined space, PPE, and safe work site practices. Brings calm judgment during on call response and physically demanding utility maintenance.

EXPERIENCE

Senior Electrical Maintenance Technician

Patuxent Valley Utility Services 📅 January 2022 - Present 📍 Rockville, MD

Leads electrical maintenance, controls support, emergency restoration, and junior technician direction across water and wastewater utility operations. Maintains production readiness through hands on diagnosis, installation, testing, documentation, and safe work coordination.

- Restored pump controls with PLC diagnostics and VFD testing during urgent wastewater service interruptions.
- Directed junior technicians through switchgear inspections, generator checks, and documented safe restoration procedures.
- Improved control reliability by testing **soft starts**, motor circuits, and **valve operators** under operating conditions.
- Installed EMT, IMC, PVC, and **rigid conduit** while pulling conductors through active utility facilities.
- Prepared confined space work sites using **Lockout Tagout**, PPE, and verified **hazardous energy** controls.
- Recorded **work orders** and material needs, giving procurement clear information for planned maintenance.
- Supported bucket truck and trencher operations during remote facility repairs and distribution improvements.

Journeyman Industrial Electrician

Chesapeake Process Controls 📅 June 2018 - December 2021 📍 Baltimore, MD

Performed industrial electrical installation, troubleshooting, and maintenance for municipal process facilities. Progressed from supervised construction work to independent diagnosis while supporting motor controls, PLC connected equipment, conduit systems, aerial access, and safe production continuity.

- Installed **three phase** services and motor controls for municipal process equipment during facility upgrades.
- Diagnosed ladder logic faults and restored PLC connected **pumps** without disrupting scheduled operations.
- Fabricated **EMT**, IMC, PVC, and rigid conduit runs using manual bending and threading equipment.
- Tested **motors**, generators, and **control circuits** with electrical instruments before returning equipment to service.
- Pulled conductors through new raceways and verified terminations against **single line diagrams**.
- Used aerial lifts during overhead installations, following site controls and equipment inspection procedures.
- Documented maintenance findings and material usage, helping supervisors plan follow up work.

LANGUAGES



MY CAREER



- Senior Electrical Maintenance Technician at Patuxent Valley Utility Services (4.7 Years)
- Journeyman Industrial Electrician at Chesapeake Process Controls (3.5 Years)

PROJECTS

- Wastewater Pump Control Restoration** 📅 2026
- Restored a wastewater pump control sequence through PLC review, VFD testing, motor checks, and documented recovery steps. Work centered on safe service restoration and dependable operation.
- Remote Utility Conduit Upgrade** 📅 2024
- Supported remote facility upgrades with conduit fabrication, conductor pulling, switchgear work, and generator connections. Careful preparation kept installation work orderly around operating utility equipment.

LEADERSHIP & AWARDS

- Maryland State Master Electrician License earned in 2025, recognizing advanced electrical responsibility and code based practice.
- Senior technician recognition for guiding junior staff through emergency utility repairs and safe restoration work.
- Safety leadership recognition for consistent Lockout Tagout preparation, confined space controls, and PPE use.

EDUCATION

- High School Diploma**
- Richard Montgomery High School 🎓 GPA: 4.0 📅 2018 📍 Rockville, MD
- Coursework:** *Electrical systems, industrial maintenance, safety procedures, technical reading*

CERTIFICATIONS

- Maryland State Master Electrician License 📅 2025
- OSHA 30 Hour General Industry 📅 2024
- Electrical System Repair and Maintenance, 120 Contact Hours 📅 2023

TECHNICAL SKILLS

- **Electrical Distribution:** Single phase services, Three phase services, Switchgear
- **Motor Control:** Motor control centers, Motor starters, Control circuits
- **Utility Equipment:** Pumps, Blowers, Valve operators
- **Power Generation:** Auxiliary generators, Generator controls, Emergency power
- **Industrial Controls:** PLCs, Ladder logic, Control panels
- **Drive Systems:** Variable Frequency Drives, Soft start devices, Motor drives
- **Conduit Systems:** EMT, IMC, PVC
- **Raceway Installation:** Rigid conduit, Conduit bending, Conduit threading
- **Electrical Testing:** Test instruments, Motor testing, Circuit testing
- **Safety Practices:** Lockout Tagout, Confined space, PPE
- **Field Operations:** Bucket truck, Trenching equipment, Conductor pulling
- **Utility Documentation:** Work orders, Material records, Procurement support

PROFESSIONAL AFFILIATIONS

- Maryland electrical trade community participant, sharing practical maintenance knowledge with working electricians.
- Utility maintenance peer network participant, exchanging field lessons on pumps, controls, generators, and emergency response.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST