

# Andres Payne

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## SUMMARY

Aspiring Substation Engineer with grounding in electrical engineering principles and a focus on high voltage systems. Demonstrates strong analytical skills through practical experience with engineering designs and calculations during academic projects. Engaged in developing expertise in both Protection and Control and Physical aspects of substations while collaborating closely with project teams. Built hands-on proficiency in using design software like ETAP, ensuring compliance with national standards, safety codes, and specifications. Eager to contribute innovative solutions and further professional growth in electrical engineering.

## EDUCATION

### Master's Degree in Electrical Engineering

2026

University of Memphis GPA: 3.7

Memphis, TN

**Coursework:** High Voltage Systems, AC/DC Circuits, Power Systems Design, CAD Applications

### Bachelor's Degree in Electrical Engineering

2025

University of Memphis GPA: 3.8

Memphis, TN

**Coursework:** Fundamentals of Electric Circuits, Electronics, Safety Standards, Engineering Ethics

## TECHNICAL SKILLS

- **Design Software:** AutoCAD, ETAP, EasyPower
- **Engineering Principles:** Electrical Fundamentals, Control Systems, Safety Standards
- **Documentation Tools:** Microsoft Word, Microsoft Excel, LaTeX
- **Project Management:** Agile Methodology, Scrum, Kanban
- **Testing Equipment:** Oscilloscope, Multimeter, Spectrum Analyzer
- **Presentation Tools:** PowerPoint, Google Slides, Canva
- **Research Tools:** MATLAB, Simulink, Python
- **Analysis Software:** SPSS, ANOVA, MATLAB
- **Networking Tools:** Cisco Packet Tracer, Wireshark, SolarWinds
- **Coding Languages:** Python, C++, MATLAB

## SKILLS

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|---------------------------------|---------------------------|---------------------------|-------------------------------|
| • Electrical Engineering        | • ETAP                    | • AC Circuit Analysis     | • Grounding Design Techniques |
| • High Voltage Systems          | • Technical Documentation | • DC Circuit Analysis     | • Wiring Diagrams             |
| • Protection and Control Design | • Team Collaboration      | • Power System Stability  | • SCADA Systems               |
| • CAD Software                  | • Communication Skills    | • Safety Compliance Codes | • Design Sketch Preparation   |

## EXPERIENCE

### Substation Design Intern

January 2026 - Present

University Project

Nashville, TN

Focused on preparing technical drawings and calculations for high voltage substations under senior engineering supervision. Collaborated on multiple engineering projects emphasizing protection design and substation layouts, contributing valuable insights and support in achieving key deliverables.

- Created detailed engineering drawings and calculations for high voltage substations.
- Conducted analyses reinforcing protection and control design protocols.
- Assisted in developing schematics, including one-line diagrams, under guidance.
- Utilized electrical design software like ETAP effectively for system evaluations.
- Participated in design reviews ensuring adherence to regulations and safety codes.
- Fostered teamwork and learning within multidisciplinary project groups.

### Electrical Engineering Assistant

September 2025 - December 2025

Academic Research

Memphis, TN

Supported engineering faculty in research surrounding innovative approaches in high voltage design methodologies. Contributed significantly by preparing documentation, performing laboratory tests, and presenting findings to stakeholders.

- Engaged actively in literature review and development relating to substation designs.
- Assisted in drafting technical reports slated for publication in journals.
- Conducted laboratory testing to monitor electrical system performance metrics.
- Showcased project outcomes in team presentations and discussions.
- Employed CAD tools for drafting precise engineering schematics.
- Cultivated collaborative rapports with peers and mentors for skill advancement.

**LEADERSHIP & AWARDS**

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- Dean's List, University of Memphis, 2025
- First Place, Engineering Hackathon, 2025

**CERTIFICATIONS**

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- Engineer in Training (EIT) 📅 2027
- Completed coursework in Electrical Design Software 📅 2026

**PROFESSIONAL AFFILIATIONS**

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- Member, Student Engineering Society, University of Memphis
- Volunteer, STEM Outreach Program for high school students

**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