

Kian Hamilton

Motor Vehicle Electrician Apprentice

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SUMMARY

Dedicated electrical apprentice, experienced in installing electrical devices within vehicle platforms. Proven knowledge of AC and DC theory underlies hands-on expertise. Ready to engage in safety-focused environments that prioritize quality, learning on-the-job with a commitment to professional growth. Has actively participated in troubleshooting electrical systems and collaborating within team dynamics to ensure proper installation and repair processes. Passionate about contributing technical skills and a solid work ethic in a supportive apprenticeship setting, eager to expand abilities while adding value through practical contributions.

EDUCATION

Bachelor's Degree in Electrical Engineering

Pennsylvania State University  GPA: 3.75  2027  University Park, PA

Coursework: Circuit Design, Electrical Fundamentals, Power Systems, Safety Standards

TECHNICAL SKILLS

- **Electrical Tools:** Multimeter, Oscilloscope, Soldering Iron
- **Safety Equipment:** Gloves, Helmets, Lockout/Tagout Kits
- **Software Platforms:** MATLAB, PSpice, AutoCAD
- **Testing Methodologies:** Functionality Testing, Load Testing, Inspection Techniques
- **Project Management:** Trello, Asana, Microsoft Project
- **Documentation Tools:** Microsoft Word, Google Docs, Adobe Acrobat
- **Presentation Software:** PowerPoint, Canva, Prezi
- **Collaboration Tools:** Slack, Microsoft Teams, Zoom
- **Electrical Components:** Resistors, Capacitors, Transistors
- **Production Methods:** Lean Manufacturing, Six Sigma, Agile

SKILLS

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|---------------------------|----------------------|--------------------------|-------------------------|
| • Electrical Installation | • Safety Compliance | • Prototype Testing | • Quality Assurance |
| • Troubleshooting | • Team Collaboration | • Research Participation | • Maintenance Practices |
| • AC/DC Theory | • Hands-On Learning | • Technical Presentation | • Deductive Reasoning |
| • Technical Documentation | • Circuit Assembly | • Schematic Reading | • Time Management |

EXPERIENCE

Electrical Installation Apprentice

University Project  January 2026 - Present  Lancaster, PA

Current role as Electrical Installation Apprentice focuses on practical applications of electrical devices in vehicles. This hands-on experience has enhanced both technical skills and an understanding of safety protocols and device compatibility. Collaborating within project frameworks for successful deliverables forms a substantial part of operations.

- Installed various electrical devices on vehicle platforms, enhancing proficiency in installation techniques.
- Applied knowledge of AC and DC electrical systems during installations, ensuring effective functionality.
- Assisted with power supply wiring setups, guaranteeing compliance with all relevant safety standards and codes.
- Participated in troubleshooting efforts for electrical complications, directly contributing to operational success.
- Collaborated with teams to perform thorough inspections on vehicles post-installation, ensuring quality assurance.
- Documented and reported installation processes, fostering stronger project management through reliable information sharing.

Electronics Technician Intern

University Research Lab  September 2025 - December 2025  Harrisburg, PA

Role supported innovative research projects by assembling and testing electronic circuits. Hands-on approach encouraged technical documentation skills alongside safety measures within lab equipment. Insights into practical electronics have spurred productivity through collaborative efforts with educational leaders.

- Helped assemble and test prototypes of intricate electronic circuits, enhancing comprehensive technical capabilities.
- Utilized hand tools and specialized equipment for installation and troubleshooting in controlled settings.
- Developed strong skills in interpreting electrical schematics, sharpening problem-solving techniques effectively.

- Conducted routine checks on lab equipment, ensuring maintenance for continuous operational efficiency.
- Engaged with faculty and peers in refining circuit testing methods, promoting faster project completion timelines.
- Shared research findings through presentations, emphasizing collaborative rallying around technical challenges addressed.

Electrical Systems Developer

Hackathon Project 📅 March 2026 📍 Remote

Focused on designing cutting-edge electrical solutions for vehicles, bringing theory into practice during competitive events. Coordinated efforts across diverse skill sets to develop prototype electric systems, applying creative thinking aligned with teamwork goals.

- Engineered a smart vehicle electrical system prototype over a short timeframe, showcasing construction agility.
- Integrated 12 Volt and 120 Volt components, marries practicality with theoretical knowledge gathered thus far.
- Worked closely with multi-disciplinary teams to resolve functional issues, reinforcing reliability principles.
- Created detailed technical specifications and project results; this presented clearly reflected iterative feedback from mentors.
- Compiled report information addressing challenges encountered, establishing future-learning pathways identified throughout projects.
- Networked with industry professionals fostered connections, enriching personal prospects towards aspiring electrical careers.

LEADERSHIP & AWARDS

- Dean's List, Pennsylvania State University, 2025
- First Place - University Electronics Competition, 2026

CERTIFICATIONS

- OSHA 10-Hour General Industry Certification 📅 2026
- Electrical Safety Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, Pennsylvania State University
- Volunteer, Local Community Electrical Safety Workshop, 2026

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST