Cameron Hale

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EDUCATION

BS in Electrical Engineering, Tuskegee University

SKILLS

Technical Skills - Load Distribution & Balancing, Circuit Installation & Protection, Energy Efficiency
Software & Tools - AutoCAD, LTspice, Multisim, Lab Instrumentation
Programming -Python, C++, HTML, MATLAB

Experience

Guess Who's Flipping- Project Manager | Pinole, CA | 01/21-Present

• Managed renovation projects for rental properties and home flips, overseeing electrical, plumbing, HVAC, roofing, and interior upgrades from start to finish.

• Gained hands-on experience in project planning, site leadership, and system-level integration across multidisciplinary renovation tasks.

Carter's Electric Co. – Apprentice Electrician | Richmond, CA | 09/23 – Present

• Completed panel upgrades, circuit installations, and load balancing for HVAC, lighting, and other systems.

• Installed EV chargers, ran conduit, and upgraded lighting systems to improve energy efficiency and safety.

• Performed code-compliant installations, interpreted blueprints and wiring diagrams, and supported project coordination and material planning.

Projects

Residential Home Rewiring

• Performed full-home rewiring, replacing outdated conductors and installing new circuits for lighting, outlets, and HVAC systems.

• Upgraded electrical panel to accommodate higher power demands, including installation of circuit breakers and overcurrent protection devices.

• Tested and troubleshot system after installation, performing voltage checks, continuity tests, and verifying grounding for safety and efficiency.

Full Renovation Project

• Coordinated trades and subcontractors, ensuring timely project completion and adherence to budget and quality standards.

• Upgraded electrical systems, including rewiring, panel upgrades, and installation of energy-efficient lighting and outlets.

Project: Hydroelectric Propulsion System Simulation

• Developed a Python-based simulation to model the mechanics and efficiency of a hydroelectric propulsion system, using fluid dynamics and power generation principles.

• Designed algorithms to simulate energy conversion from water flow to mechanical propulsion, optimizing efficiency and performance.

• Analyzed system behavior under different conditions (flow rates, turbine efficiency) to predict real-world performance and identify potential improvements.