

Cameron Hale

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EDUCATION

BS in Electrical Engineering, Tuskegee University **GPA 3.3**

SKILLS

Technical Skills - Load Distribution & Balancing, Circuit Installation & Protection, Energy Efficiency

Software & Tools -AutoCAD, LTspice, Multisim, Lab Instrumentation, VSS, Vercel, GitHub

Programming -Python, C++, HTML, MATLAB, JavaScript

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- Performed full-home rewiring, replacing outdated conductors and installing new circuits for lighting, outlets, and HVAC systems.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 troubleshooted system after installation, performing voltage checks, continuity tests, and verifying grounding for safety and efficiency.

Engineering Portfolio Website

- Designed and launched a responsive portfolio using HTML/CSS, GitHub, and Vercel to highlight original engineering projects.
- Focused on content clarity, technical storytelling, and project structure for a professional user experience.
- AI tools for advanced debugging, layout refinement, and cross-browser optimization.

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.