

Anh Phung

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WORK EXPERIENCE

Kennesaw State University | Industrial Motor Control Lab Assistant **Aug 25 – Present**

- Configured and commissioned motor control systems including Allen-Bradley PLCs and VFDs, conducting functional testing to identify and resolve wiring, parameter, and logic deficiencies before deployment.
- Validated system functionality and safety compliance through systematic testing protocols, ensuring proper hardware-software integration and operational requirements are met.

Chattahoochee Technical College | Lab Tutor **Jan 22 – May 23**

- Tutored 20+ students weekly in building and testing analog and digital circuits, improving lab completion rates through hands-on instruction.
- Assisted students in identifying and correcting wiring and measurement issues, developing troubleshooting methodologies for circuit analysis.

Piedmont Atlanta Hospital | Biomedical Equipment Technician Intern **Aug 22 – Nov 22**

- Performed preventive maintenance, inspections, and calibration of medical equipment.
 - Verified equipment functionality prior to return to service.
 - Documented test results and maintenance activities in compliance with safety standard.
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PROJECTS

Senior Design Project - Robin and Doug Shore Entrepreneurship & Innovation Award

- Led a 5-person interdisciplinary team to design and develop a real-time indoor air quality monitoring device to detect 3D printing emissions, addressing workplace safety concerns.
- Integrated multiple gas sensors (TVOC, PM2.5, formaldehyde) with Raspberry Pi Zero 2 for real-time concentration measurement, data logging, and web-based visualization.

Automated Industrial Coating System

- Programmed an Allen-Bradley CompactLogix PLC (ladder logic) to control a dual-conveyor spray system with robotic interface and PowerFlex 525 VFD over Ethernet/IP.
 - Designed state-based control system with startup, normal operation, temporary stop, and shutdown sequences including safety interlocks, visual/audible alarms, and Ethernet/IP communication with PowerFlex 525 VFD.
 - Implemented 5 optical sensors with automated chamber door actuators, air filtration controls, and engine spacing protocol using counter logic to maintain production flow
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SKILLS

Electrical Systems: Motor control systems, single- and three-phase systems.

Controls & Automation: Programmable Logic Controllers (PLC), ladder logic, Allen-Bradley PLCs, VFDs.

Software & Tools: AutoCAD, KiCAD, MATLAB, LTSpice simulation, Python, C/C++, SQL.

EDUCATION

Kennesaw State University | Marietta, GA | May 2026 GPA: 4.0

Bachelor of Science in Electrical Engineering Technology

Awarded the Undergraduate Research Assistant Funding.

Chattahoochee Technical College | Marietta, GA | May 2023 GPA: 3.87

AAS in Electrical/Computer Engineering Technology