

Summary

Electrical and Computer Engineering Technology professional with expertise in embedded systems, PCB design, IoT, and industrial automation. Proficient in Python, C++, MATLAB, and AutoCAD, with proven success in hardware–software integration, troubleshooting, and project management.

Education

Associate Degree in Electronic Engineering Technology Sinclair Community College Dayton OH, United States [3.329] GPA out of 4 Dean's List Honoree [Fall, 2019 and Fall, 2020]	May 2021
Bachelor of Science in Electrical and Computer Engineering Technology Pennsylvania State University Erie PA, United States [3.24] GPA out of 4 Dean's List Honoree [Summer 2024]	Dec 2025

Skills

Programming & Software

- Python, C++, MATLAB
- Database Management
- Microsoft Office

Engineering Tools & Technologies

- AutoCAD, PCB Design
- Circuit Analysis, Digital Circuitry
- RFID Technology, Microprocessor-based Systems
- PLC Programming

Industry Knowledge

- National Electrical Code (NEC)
- Project Management
- Electronic Troubleshooting
- Embedded Systems, IoT, Industrial Automation

Work Experiences

IT Teacher: Rowad Alkhaleej International School | Jeddah, Saudi Arabia **Feb 2022 - Feb 2023**

Taught hardware development and software programming courses, incorporating case studies, technology tools, and equipment training to provide students with practical, real-world learning experiences.

Teacher's Assistant: Al-Moktashef International School | Jeddah, Saudi Arabia **Sep 2021 - Feb 2022**

Helped teachers with material generation, lesson plan development, class preparation, scheduling, and student mentoring.

Academic Projects

Pennsylvania State University | Erie PA, United States **Aug 2024 – May 2025**

Developed a fully functional tremor detection device for Parkinson's patients; responsible for programming, testing, and project planning, while also contributing to debugging, documentation, and final project delivery.

Sinclair Community College | Dayton OH, United States **Jan 2021 – May 2021**

Designed and developed a fully functional arcade system featuring two original games, responsible for circuit design, soldering, and final system testing.

Certifications

- Certified in Digital Systems, 2020
- SME (Society of Manufacturing Engineers), 2021