



GEORGE STEPHENSON

Objective

Entry-Level Computer Engineer with hands-on experience in embedded systems, C/C++ and Python development, hardware/software integration, and system testing on microcontroller and Linux-based platforms. Seeking to contribute to reliable, secure, and scalable engineering solutions within regulated and technologically driven environments.

Core Competencies: Embedded Systems, C/C++ Development, Hardware/Software Integration, System Testing & Debugging, Linux Platforms.

Skills

Programming & Software:

C, C++, Python, Java, Assembly Language

Embedded & Systems:

Arduino

Engineering Tools:

COMSOL, MATLAB, SolidWorks, PSpice

General:

Microsoft 365

Education

Bachelor of Science Computer Engineering

University of Hartford

2021-2025

High School Diploma

Bloomfield High School

2017-2021

Community Service

National Society of Black Engineers (NSBE) (Aug 2024 – Present)

Audio Visual Team Member, Rehoboth Church of God (Aug 2024 – Present)

- Support live event technology, sound systems, and multimedia operation.

Project Experience

Automatic Plant Watering System

- Designed an Arduino-based embedded control system using environmental sensors.
- Developed C firmware for real-time irrigation control based on sensor thresholds.
- Tested and validated system behavior under varying environmental conditions.

Snowshield

- Designed a temperature-driven embedded control system in C.
- Implemented real-time logic to activate heating elements under hazardous conditions.

Sun Tracking Solar Panel

- Implemented sensor-driven control logic to dynamically adjust panel orientation.
- Integrated Python-based control logic with motors to improve energy capture efficiency.

Electronic Pinging Device (Capstone)

- Built a Linux-based embedded system using Raspberry Pi and multiple sensors.
- Developed C/C++ and Python software, integrated hardware via GPIO and serial interfaces.
- Performed system-level testing, debugging, and documentation.

Professional Experience

- The Home Depot, Bloomfield, CT
Specialty Sales Associate, April 2021-present
- Assisted customers with technical product selection in a fast-paced retail environment.
- Operated, calibrated and maintained equipment including paint system, electric ladders, and materials-handling tools.
- Performed troubleshooting and quality checks to ensure equipment reliability and safe operation.
- Strengthened teamwork, problem-solving, and customer-facing communication skills in a safety-conscious setting.