

# John Mathews

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## Work Experience

### Junior Embedded Software Engineer

*August 2023 - September 2024*

FastFetch by ABCO Systems - Seneca, SC

- Ported existing firmware from ASM to Embedded C.
- Transmitted data using asynchronous infrared communication.
- Deployed new firmware to our products across the country.
- Designed Python scripts to test new and existing projects.
- Created in-depth documentation for hardware and firmware.

### Embedded Software Engineer Intern

*May 2023 - August 2023*

FastFetch by ABCO Systems - Seneca, SC

- Developed source code for a new company hardware prototype.
- Wrote detailed documentation accompanying the prototype.

### NALCAP Language Assistant

*October 2024 - June 2025*

C.E.I.P Eugenio Maria de Hostos - Madrid, Spain

- Assist in teaching English and US culture to children in Spain.

### Aquatics Supervisor

*May 2018 - August 2022*

Carowinds - Charlotte, NC

- Managed over twenty employees and their daily routines and necessities.

## Personal Projects

johnmathews.tech

- Created a personal website to explore web development concepts.
- The website is a minimalistic approach using a combination of HTML5, CSS, and PHP.

Remote Door Unlocking System

- Developed a remote door unlocking system for my apartment.
- The system uses a microcontroller and motor to physically activate the door's unlock button.

## Education

Clemson University, Clemson, SC

Bachelor of Science in Computer Science, Minor in Business Administration and Cybersecurity

GPA: 3.71

## Skills

**Programming Languages:** C/Embedded C/C++, Python, Java, JavaScript, MySQL

**Development Skills:** AWS, Azure DevOps, Git, WSL, SDCC, Microchip Studio, VIM

**Embedded Skills:** Oscilloscope, Serial and Infrared Communication, 8052 and ATmega Microcontrollers

## Honors and Activities

- Graduated Cum Laude
- D1 Collegiate Cheerleader
- Golden Tiger Award