# William Ariail

Columbia, SC 29072

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## EDUCATION

**Midlands Technical College** - Columbia, SC

*Associate of Applied Science in Electrical Engineering*                    *Expected Fall 2025*

GPA: 3.4

**University of South Carolina** - Columbia, SC

*Bachelor of Science in Computer Engineering*                    *Expected Spring 2027*

GPA: 3.5

Scholarships: Palmetto Life Scholar

## EXPERIENCE

**CSCE 312 Project-Embedded Systems**                    *Aug 2024 - Present*

- Collaborated with a partner to design and program an embedded system using Intel FPGA (Quartus Prime & Nios II IDE)
- Developed custom I/O controllers for LEDs and switches through memory mapped I/O
- Designed and debugged C code to control hardware behavior and display outputs in real time
- Strengthened technical communication by dividing design responsibilities and integrating into a single functional prototype

**PC Building and Hardware Support**                    *Aug 2020 - Present*

- Build and configure custom desktop computers for gaming and productivity use
- Troubleshoot hardware and software issues
- Advise clients on component selection, compatibility, and cost-effective upgrades
- Assist with diagnosing system issues and performing repairs

## LEADERSHIP / EXTRACURRICULARS

**University of South Carolina Esports Team**

*Rocket League B Team Captain*                    *Aug 2024 - Present*

- Lead and manage a competitive collegiate team, coordinating practice schedules, scrims, and match communications.
- Communication with other teams and captains to organize inter-club events.

**Institute of Electrical and Electronics Engineers (IEEE)**

*University of South Carolina Student Chapter*                    *Aug 2024 - Present*

- Participate in meetings and online discussions focused on engineering innovation and career development.

**Association for Computing Machinery (ACM)**

*University of South Carolina Student Chapter*                    *Aug 2024 - Present*

- Engage with peers through the ACM discord to stay updated on programming discussions, events, and opportunities.

## TECHNICAL SKILLS

**Languages:** Java, C, Python, HTML/CSS, Bash

**Tools:** Visual Studio Code, Git/GitHub, Quartus, MATLAB

**Hardware:** Circuit Design, Soldering, Breadboarding, Microcontrollers (Arduino, Nios II)

**Soft Skills:** Team Collaboration, Problem Solving, Time Management