Lewis Arias

Columbia, SC

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email@example.com

https://gitlab.com/ArtixBTW

https://github.com/ArtixBTW

Education

University of South Carolina - Columbia   **May 2029**
Columbia, SC
Bachelors of Science in Computer Science

Relevant Experience

Programming Team Lead - FRC Team 4451 (Robotz Garage)   **Fall 2022 - Spring 2025**
Fountain Inn High School, Fountain Inn, SC

As the lead of the programming team I gained leadership, conflict resolution skills, and learned how to keep a cool head and make decisions under pressure.

- Competed in the FIRST Robotics Competition, a high school robotics program where students work alongside mentors to build robots & play that year's game
- Pose estimation via encoders + IMU and computer vision
- Used PID controllers for precise position and velocity control of elevators, arms, shooters, and both tank & swerve drive bases
- Computer vision to process AprilTags for pose estimation and to automate driver tasks such as scoring and alignment
- Led presentations for FIRST South Carolina at the annual symposium in 2024 & 2025 titled "FRC Java 101: Getting Started with Java" where the software setup from step 0 to programming a fully functional driving robot was taught live.

Skills

Programming Languages

- C
- C++
- Clojure
- Fennel
- Java
- Kotlin
- Lua
- POSIX Shell & Bash
- Python
- Rust

Tools

- Git, GitHub, GitLab
- Gradle
- Nix & NixOS
- SSH