# Javier Irizarry-Delgado

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github.com/Shxl2

## Education

**University of Florida** *Fall 2024 – Spring 2028*
*BS in Electrical Engineering*

- GPA: 4.0
- Benacquisto Scholarship
- STEPUP 30 Program Scholar
- **Relevant Coursework:** Calculus 3, Physics 2

**American Heritage Schools – Broward Campus** *Fall 2020 – Spring 2024*

- Engineering and Computer Science track

## Skills and Abilities

**Programming Languages:** Java, C++, Python, LaTeX
**3D Modeling:** Onshape, Fusion 360, Inventor
**Languages:** English, Spanish

## Experience

**Robotics Mentor** *Gainesville, FL*
*P.K. Yonge Developmental Research School* *Fall 2024 -*

- FIRST Robotics Competition Team 4118: Roaring Riptide
- Taught high school students how to write robot programs in Java, and wire FRC robots

**Robotics Summer Camp Counselor** *Plantation, FL*
*American Heritage Schools - Broward Campus* *Summer 2021 - 2024*

- Taught campers how to code in Java, and wire motors, sensors, and microcontrollers to summer camp robots, for an in-house robotics competition. Fixed electrical issues during competitions.

## Extracurricular Activities

**Machine Intelligence Lab - Member** *Gainesville, FL*
*University of Florida* *Fall 2024 -*

- Wrote robot programs in robot operating system (ROS) for the Maritime RobotX challenge.

**Robotics - Electrical Director** *Plantation, FL*
*American Heritage Schools - Broward Campus* *Fall 2022 - Spring 2024*

- FIRST Robotics Competition Team 2383
- Programmed the robot (Java and C++) using a finite state machine, and wired the components of the robot (motors, motor controllers, microcontrollers, sensors). Fixed electrical issues during competition.

## Projects

**Simultaneous Localization and Mapping (SLAM) for FIRST Robotics Competition Robots** *github.com/Ninjineers-2383/SLAM-Server*

- In a team of two, developed a program for SLAM in Java using April tags as landmarks, which ran on an external coprocessor (Beelink mini pc).
- Developed a program to time-sync vision measurements.