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*

- GPA: 5.41
- 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 Fall 2024 - Present*
P.K. Yonge Developmental Research School

- 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 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.

Volunteer (Innovation Lab) *Youngsville, NC*
Eaton Corporation *Summer 2022*

- Developed an image processing solution to enhance quality and reduce human error.
- Utilized a webcam to create a system that identifies incorrect battery terminal installations. The system detects if the operator is about to connect the positive terminal (Red) to the negative terminal (Black), preventing potential thermal events in UPS device batteries.
- Created an Industrial Engineering simulation using Legos.
- Designed a production line model that prioritizes efficiency and cost-effectiveness, incorporating quality and safety measures.

Extracurricular Activities

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

- Programmed autonomous systems in 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*

- Developed a java program for SLAM in Java using April tags as landmarks, which ran on an external coprocessor (Beelink mini pc).

- Implemented a program to time-sync vision measurements.

Awards

- National Merit Finalist
- National Hispanic Recognition Scholar
- FIRST Robotics Competition Dean's List Semifinalist 2023