

# Sebastian Sotomayor

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## Education

### University of Central Florida

*Bachelor of Science in Computer Engineering*

**Orlando, FL**

GPA: 3.5

May 2026

**Relevant Coursework:** Data Structures and Algorithms, Digital Logic Design, Object Oriented Programming, Linear Circuits II

## Skills

**Software:** C, Java, Python, MIPS, Arduino, Verilog, HTML/CSS

**Equipment:** PCB Design, Breadboarding, Oscilloscope, Waveform Generator, Multimeter, FPGA Programming

**Languages:** Fluent in English and Spanish

## Projects

### IEEE SoutheastCon Hardware Competition

September 2024 – March 2025

- Designed and integrated power electronics systems for a fully autonomous robot, focusing on reliable power distribution through buck converters and voltage dividers.
- Managed battery configurations and optimized electrical efficiency to meet the energy demands of various robotic components, ensuring stable and efficient power delivery throughout the system.

### Experimental Study of Sorting Algorithms

September 2024 – December 2024

- Conducted an experimental study of six sorting algorithms, analyzing execution times for datasets ranging from 10,000 to 100,000 elements.
- Recorded and visualized over 30 data points in Excel, creating comparative plots to highlight time complexity trends and scalability.
- Achieved insights into algorithm efficiency, demonstrating up to 90% faster execution for optimized algorithms on large datasets.

## Professional Experience

### Winter Park Tennis Center

**Winter Park, FL**

*Maintenance Worker*

May 2024 – Present

- Performed routine maintenance tasks such as cleaning, sweeping, and sanitizing tennis courts, ensuring a safe and hygienic playing environment for patrons.
- Conducted repairs and adjustments to court surfaces, nets, and fencing as needed, utilizing basic hand tools and equipment.
- Inspected and maintained tennis court surfaces, nets, and equipment to ensure they are in optimal condition for use.

### Plantation Central Park

**Plantation, FL**

*Facility Attendant*

August 2018 – October 2024

- Assisted an average of 200 park visitors daily by providing information about park amenities, rules, and regulations, ensuring a welcoming and informative experience.
- Greeted visitors at the reception desk, received incoming calls, created reservations, took messages, and provided necessary information in a professional manner.
- Maintained cleanliness and sanitation of park facilities, including restrooms, picnic areas, and playgrounds, contributing to a 55% increase in visitor satisfaction.

### Puerto Rican Student Association

**Orlando, FL**

*Marketing Director*

September 2022 – December 2023

- Executed targeted social media campaigns to enhance awareness of cultural events, fostering an environment where Puerto Rican students could connect and feel at home.
- Distributed promotional materials and managed Instagram, creating engaging posts and fostering online community engagement that resulted in 200 new followers.
- Built partnerships with media outlets and other Latin student associations to enhance visibility and promote cultural initiatives.

## Organizations

- Institute of Electrical Electronics Engineers
- Themed Entertainment Association
- Puerto Rican Student Association