

# Jeffrey Contreras

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## EDUCATION

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**B.S. in Computer Engineering, *Cum Laude***  
**Minor in Mathematical Sciences and Physics**  
Florida International University – Honors College

**May 2022**  
**GPA – 3.62/4.0**

**M.S. in Computer Engineering**  
Florida International University

**May 2024**

***Relevant Coursework:*** Data Structures and Algorithms, Programming I, Programming II, Systems Programming, and Embedded Systems

## LEADERSHIP EXPERIENCE

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**Honors College Leadership Council**  
*FIU Honors College*

**September 2019 – April 2022**

- Advised faculty on enhancing Honors College undergraduate students' academic and professional goals
- Executed and organized social events for Honors College undergraduate students
- Transformed methods/policies of student engagement and graduation requirements of the Honors College

## PROJECT EXPERIENCE

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**Simon Says**  
*Hackathon Project*

**September 2020**

- Developed a button matching game using a Raspberry Pi 4 circuit board using multiple buttons
- Applied strong programming competency in C, as well as efficient analytical skills to record user input
- Designed to create entertainment for users who wishes to play a memory game

**Fire Extinguisher Robot**  
*Club Project*

**January 2022 – April 2022**

- Collaborated with a team to create a robot that scans and extinguishes fires around its environment
- Implemented LiDAR for robot to scan the environment to extinguish fires and to avoid obstacles
- Utilized Raspberry Pi, Arduino, and Robot Operating System to send values to encoders to move robot

**Portable Photovoltaic Sensor Interface**  
*Senior Design Project*

**August 2021 – April 2022**

- Used a Raspberry Pi 4, solar panels, and INA219 current sensors to detect the efficiency of solar panels
- Developed software for optimized results and integrated I2C for communication between Raspberry Pi and INA219-current sensors
- Wrote a research report on the project's features, intended users, social impact, considerations, and budget

## SKILLS

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- **Programming Languages:** Java, Python, C, and C++
- **Tools:** Arduino, AutoCAD, Git, GitHub, GitLab, Linux, Raspberry Pi, and Visual Studio Code
- **Spoken Languages:** English and Spanish