

Jeffrey Contreras

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EDUCATION

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

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

PROJECTS EXPERIENCE

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

- **Programming Languages:** Java, Python, C, C++, SQL, C#
- **Tools:** AutoCAD, CodeBlocks, Git, GitHub, PyCharm, Visual Studio Code, and Unity
- **Spoken Languages:** English and Spanish