

Jeffrey Contreras

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EDUCATION

M.S. in Computer Engineering

May 2024

Florida International University

B.S. in Computer Engineering, *Cum Laude*

May 2022

Minor in Mathematical Sciences and Physics

GPA – 3.62/4.0

Florida International University – Honors College

Relevant Coursework: Data Structures and Algorithms, Microcomputers, Systems Programming, Embedded Systems, and Linear Algebra

SKILLS

- **Programming Languages:** C, C++, Java, and Python
- **Tools:** Android Studio, Arduino, AutoCAD, Git, GitHub, Linux, Raspberry Pi, and VS Code
- **Soft Skills:** Leadership, Patience, Problem-Solving, Teamwork, Time Management, and Humor

LEADERSHIP EXPERIENCE

Honors College Leadership Council

September 2019 – April 2022

FIU Honors College

- Advised faculty on enhancing Honors College undergraduate students' academic and professional goals
- Executed and organized social events of over 100 Honors College undergraduate students
- Transformed 3 methods/policies of student engagement and graduation requirements of the Honors College

PROJECTS

Fire Extinguisher Robot

January 2022 – April 2022

Club Project

- Collaborated with a robotics 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

August 2021 – April 2022

Senior Design Project

- Utilized Python programming and INA219 current sensors to detect the efficiency of solar panels
- Developed software for optimized results and integrated I2C between Raspberry Pi and INA219 sensors
- Orchestrated teamwork to research the project's features, intended users, social impact, and budget

Simon Says

September 2020

Hackathon Project

- Developed a button matching game with a Raspberry Pi circuit board, multiple buttons, and LEDs
- Applied strong C programming competency, as well as efficient analytical skills to record user input
- Utilized Geany software, a GUI text editor, to create and deploy project onto the circuit board.