Carlota "Charlotte" Ramiro de Huelbes

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Education

Olin College of Engineering, Needham, MA

B.S. in Electrical and Computer Engineering   MAY 2024

GPA: 3.52
Courses: Software Design, Computer Architecture, Data Structures and Algorithms, Discrete Math, Circuits

Skills

Software: Python, MATLAB, C++, Arduino, HTML, Javascript, CSS, Excel, SolidWorks, Adobe Suite, Verilog
Languages: Spanish, English
Hobbies: Photography, fire arts, dance

Experience

Olin Satellite + Spectrum Technology & Policy (OSSTP) Group   JUNE 2021 - PRESENT

Student Researcher | Needham, USA

- Lead project for low-cost antenna control unit (ACU) that tracks satellites and allows remote control
- Researched and developed Equivalent Power Flux Density (EPFD) software in MATLAB to quantify interference from NGSO satellite communications systems into GSO satellite networks
- Reviewed and edited textbooks for Analog and Digital Communications and Satellite Systems classes

Kyaro Assistive Tech   MAY - AUGUST 2022

Lead Web Developer and Photographer | Arusha, Tanzania

- NGO based in Tanzania that designs low-cost assistive devices adapted to rough environments
- Created new pages on website for donations, partnerships, and hiring
- Improved search engine optimization and cleaned up and updated pages from previous iteration
- Photographed fitting, fabrication, and delivery process for website, grant applications, and other marketing

Sener Aerospace   JUNE - JULY 2021

Electrical Engineering Intern | Madrid, Spain

- Company supplies systems integration and engineering services to international space, aeronautics, and defense markets
- Developed and performed functional and electrical testing procedures for SIROM robotic mating and power transfer mechanism with CAN Bus communication system
- Programmed graphical user interface using Python for clients to interact with SIROM
- Researched and selected components to recommend for several spaceflight projects
- Learned how to use Altium printed circuit board designing software

Projects

BaristaBot   DECEMBER 2021

- Coffee-making robot with three-tiered rotational design
- Lead project management, electrical system design, and power management
- Built HTML5 website for project documentation
- [Additional information](#)

Platfrogs   MAY 2021

- Designed and programmed frog-themed platformer game in Python with PyGame library
- Practiced object-oriented programming and model-view-controller game development
- Wrote unit tests to check for bugs and ensure that program was running as intended
- Created GitHub website to explain project features and installation

Awards

Massachusetts Space Grant Undergraduate Research Award   FALL 2021 - FALL 2022
Public Interest Technology Summer 2022 Fellowship   SUMMER 2022