

Carlota Navarro

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EDUCATION

University of Michigan, College of Engineering & School of Information

Ann Arbor, MI

BSE in Computer Science and pursuing BSI in User Experience Design | GPA: 3.9/4.0

Aug. 2023 – May 2027

- Minor in Business
- Programming Languages: C++, Python, MATLAB, HTML, CSS, JavaScript
- Relevant Courses: Data Structures and Algorithms, Programming and Data Structures, Discrete Mathematics, and Web Design, Development, and Accessibility
- Founding member of Latinos at UMich and member of Society of Hispanic Professional Engineers

EXPERIENCE

SPARK Electric Racing

Ann Arbor, MI

Display Programmer

Sept. 2023 – present

- Developed a fully responsive dynamic dashboard display using QML and C++ with real-time visualizations for 7+ key parameters (e.g., speed, temperatures, battery voltage), optimizing rider interaction and improving vehicle performance through intuitive control and immediate feedback
- Integrated light and dark mode functionality for the touchscreen display, enhancing user experience by allowing riders to adjust the interface based on personal preferences, resulting in a 15% improvement in rider comfort
- Collaborated with a team of 5 engineering students to conduct iterative UI optimizations, achieving a 10% faster data refresh rate and enhanced readability, directly contributing to quicker rider decision-making

Michigan Quantitative Computing

Ann Arbor, MI

Vice President of Internal Affairs

Mar. 2024 – present

- Programmed a responsive website using HTML and CSS to establish an online presence and streamline announcements, resulting in a 75% increase in applications during recruitment
- Co-founded *Predictify*, a 12-week project focused on using natural language processing to make stock predictions
- Designed a semester-long curriculum for new members with no previous experience in the overlap between algorithms, computer science, and the financial industry, intending to help students explore career options

Association of Latino Professionals for America

Ann Arbor, MI

Internal Strategy and Funding Team Member

Sept. 2023 – present

- Automated Instagram and email marketing campaigns for Mensajeros de La Paz using Python scripts and the Instagram API to boost digital presence, increasing followers by 10%, and raising \$30K for children in need
- Facilitated the ALPFA Mentorship Program by matching upper- and lowerclassmen based on career interests, providing tools for underrepresented groups, and exploring the intersection of software engineering and business

Mercenari Educational Consulting

Miami, FL

SAT and AP Course Tutor

Aug. 2022 – present

- Tutored 10 high school students in AP Calculus and AP CSA, increasing GPA by an average of 0.5 points
- Worked with a 4 person team to raise SAT success rate of high school students by creating customized lesson plans that coincided with the various learning styles of students, improving scores by a guaranteed 100 points

PROJECTS

Predictify | Python, PyTorch, Git

Aug. 2024 – present

- Co-led the development of a platform that uses natural language processing to analyze financial news and generate stock market predictions, making insights more accessible to engineering students
- Trained deep learning models in PyTorch to analyze stock market trends, leveraging NLP-processed news data to generate predictions on whether users should buy, hold, or sell the stock of their choice

Mini Mozart | FPGA, Verilog, ASE100, DE2-115, Git

Feb. 2024 – May 2024

- Partnered with a team of four to develop a digital piano using a DE2-115 FPGA, programming functionality in Verilog to allow users to interact with the piano via a touchscreen interface and receive real-time audio feedback
- Integrated 4 input/output devices in the ASE1 100, including a touchscreen, SD card, LEDs, and speaker

ADDITIONAL

- Raised in Caracas, Venezuela and Miami, Florida, gaining proficiency in Spanish, English, and cooking Arepas
- Film enthusiast (#1 Mamma Mia!) and producer, with 7+ travel vlogs from The Big House all the way to France
- When not working on EECS projects, I spend time playing tennis, the guitar (or the piano), and water-skiing