

FRANK CARDONA

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Education

Mississippi State University

Bachelor of Science in Computer Engineering

August 2021 – May 2024

Starkville, MS

Relevant Coursework

- Data Structures
- Algorithms
- Operating Systems
- Microprocessors
- Digital System Design
- Embedded Circuits
- Computer Networks
- Computer Architecture

Experience

Southern Import Specialist

December 2023 – April 2024

Project Engineer

Pearl, MS

- Initiated and Managed Online Sales Project: Spearheaded the development and implementation of an online sales, resulting in a monthly growth rate of 80% and adding \$180K in top-line revenue
- Managed a team, overseeing the accurate uploading of inventory, data listing, and on-time shipping, which led to the establishment of a fully operational online store.
- Engineered processes to streamline inventory management, boosting annual sales by \$100K through enhanced product availability and customer satisfaction.
- Directed cross-functional team initiatives that integrated technical solutions with business objectives, leading to the capture of new market segments and a notable increase in competitive positioning
- Utilized Snap-It, Move-It software to optimize ecommerce integrations, resulting in 0% server downtime and achieving an estimated annual saving of \$50K in operational costs.

Goodloe Dental

May 2019 – July 2019

Patient Care Coordinator/Translator

Canton, MS

- Enhanced patient understanding and comfort, as reflected by a 94% improvement in patient satisfaction surveys.
- Supported advanced dental procedures by assisting with digital X-ray imaging, emphasizing patient comfort and safety. Contributed to the adoption of digital radiography techniques, improving procedural efficiency and patient experience.
- Managed and digitized 1,000+ patient records, increasing retrieval efficiency by 30% and ensuring compliance with healthcare privacy standards.

Projects

Electric Bike Conversion Kit Development | *C++, HTML5, CSS3, JavaScript, Git*

August 2023 – April 2024

- Led software development for the E-Zoom hybrid e-bike conversion kit using C++ on Arduino Uno, achieving speeds up to the federal limit of 20 mph and a 45-mile battery life.
- Directed a team of 5 engineers, transitioning from prototype to market-ready product in 8 months.
- Developed a comprehensive portfolio website for the product using HTML5, CSS3, JavaScript, and responsive design, resulting in a 35% increase in project visibility on GitHub.

Scientific Calculator Reverse Engineering | *Data Sheets, Schematic Software, TI-Connect Editor*

March 2023

- Conducted a thorough dissection of a scientific calculator to understand its functionalities and hardware components.
- Studied data sheets and reverse-engineered the main board to gain insights into button mapping, microcontroller logic, and hardware-software interaction.
- In-depth reverse engineering of TI-Basics programming language used to compute operations.

Slone 12W Audio Amplifier Design and Construction | *Orcad, Cadence Design System, PCB Editor*

April 2022

- Successfully spearheaded the development of a Slone 12W Audio Amplifier overseeing the entire process from design to construction identifying and rectifying a critical output value (95K to 114.14K) and PCB layout challenges.

Technical Skills

Languages: C++, Python, C, Verilog, HTML5, CSS3, JavaScript, TI-Basics, SQL

Developer Tools: Visual Studio Code, Arduino Uno, Git Desktop, OrCAD, Cadence Design System, GitHub, Eclipse

Technologies/Frameworks: Linux, Snap-It, Move-It, TI-Connect CE App Editor, Agile methodologies, Git

Additional Information

- Commitment Award 2023: Recognized by the Society of Hispanic Professional Engineers (SHPE) at Mississippi State University for outstanding contribution, leadership, teamwork, and commitment to advancing the organization's goals.
- Society of Hispanic Professional Engineers (SHPE): Active member, contributing to various projects and initiatives aimed at supporting Hispanic students in engineering.
- Latino Student Association: Engaged in events and activities promoting Hispanic culture and community within the university.
- Bilingual in Spanish and English.