

Daniel Palma

Software Engineer

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EDUCATION

- **University of Central Florida** Orlando, Florida
• *Bachelor of Science in Computer Science, BS* *Expected Graduation: 2026*
• *Relevant Coursework:* Computer Science 1, Discrete Mathematics, Writing for Technical Professionals, Statistical Methods 1

SKILLS SUMMARY

- **Languages:** C, Javascript, HTML, CSS
- **Frameworks:** Node.js, React, TailwindCSS
- **Tools:** GIT, Netlify, Visual Studio Code, Fusion360, nTopology, Cura
- **Platforms:** Linux, Web, Windows
- **Soft Skills:** Writing, Public Speaking, Collaboration
- **Languages:** Spanish, English

PROJECTS

- **FreeBoard** *June 2021 - Present*
 - *Simple 60% keyboard designed using Fusion360 incorporating open-source PCB's*
 - **Ergonomics:** Utilized Fusion360 to create a 3D model of the keyboard, optimizing the layout and ergonomics for improved typing experience.
 - **Rapid Prototyping:** Sliced using Ultimaker Cura and 3D printed the parts using a Ender 5 plus, paying close attention to the tolerances, and topology.
 - **Budgeting:** Designed the keyboard to be as cost-effective as possible, using open-source PCB's and 3D printed parts.
 - **Open-Source Firmware:** Programmed the keyboard's firmware in C using open-source tools, allowing for customization of key mappings
- **Competition Design** *June 2022*
 - *3D Printed enclosure to house prefabricated components and protect them from environmental factors*
 - **Strict Rules and Guidelines:** Adhered to the strict rules and guidelines of the competition, including the design requirements, and the design process.
 - **Design Consideration:** Considered the design requirements, including the weight, size, and material properties.
 - **Documentation:** Produced detailed documentation of the design process, including the design, manufacturing, and assembly process.
 - **Topology Optimization:** Utilized nTopology in order to optimize the design for strength and weight while meeting the design requirements.

ORGANIZATIONS

- **Society of Hispanic Professional Engineers** August 2022 - Present
 - *Member*
- *Member*
- *Member*

HONORS AND AWARDS

- National Additive Manufacturing Competition Finalist - July, 2022
- Top Engineering student @ Cypress Bay High School - June, 2022
- AP Scholar with Distinction - May, 2021