Daniel Palma

Software Engineer

Email: dany@dpalma.dev
Github: github.com/danypalma

Education

- **University of Central Florida** — Orlando, Florida
  Bachelor of Science in Computer Science, B.S. — *Expected Graduation: 2026*
  Relevant Coursework: *Computer Science 1, Intro to Discrete Mathematical Structures, Writing for Technical Professionals, Statistical Methods 1*

Skills Summary

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

Projects

- **DealDetector**
  A Python-based Discord bot that monitors and alerts users of price drops. — *April 2022 - Present*
  - **Price Monitoring**: Utilizes the requests and Beautiful Soup libraries to scrape the websites of online retailers to extract item titles and prices
  - **Discord Integration**: Leverages the discord.py library to connect to Discord's API and send alerts to users through designated channels.
  - **Customizable**: Enables users to monitor prices in real-time and sends alerts when they meet desired thresholds, enabling users to easily add, specify, and track items

- **FreeBoard**
  Simple 60% keyboard designed using Fusion360 incorporating open-source PCB's — *June 2021 - Present*
  - **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**
  3D Printed enclosure to house prefabricated components and protect them from environmental factors — *June 2022*
  - **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

- **UCF SAE Baja** — August 2022 - Present
  Data Aquisitions Team Member

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

- **Knight Hacks** — August 2022 - Present
  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