Eli Campos

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EDUCATION

- **University of Florida** — Gainesville, Florida
  B.S. in Computer Engineering - GPA: 3.50/4.00 — *Expected December 2025*
- **Undergraduate Coursework**: Programming I & II, Digital Logic (Spring 2024), Data Structures and Algorithms, Computational Linear Algebra, Intro to Competitive Programming and Applied Machine Learning (Spring 2024)
- **Memberships**: ColorStack, Innogators Design Team and IEEE

PROJECTS

- **Formy(C/C++)**: Developed a PCB for a fitness device that tracks how well your form is during a power-lifting movement and counts the number of repetitions per set automatically while only modifying the barbell.
- **AVL Tree(C++)**: Implemented a balanced AVL Tree in C++ to ensure efficient insertion, deletion, and search operations in logarithmic time.
- **Chownow(Flask, CockroachDB, and React)**: Created an application that provides users with information about food places nearby with certain preferences of food type, distance, and budget resulting in a much more time-efficient method to find places. This application was also an MLH Category Winner at Hackabull 2023.

SKILLS

- **Languages:** Python, Flask, C++, C, HTML, CSS, JavaScript, Swift, ARM Assembly and MATLAB

- **IDEs:** Visual Studio and Pycharm, and Clion

- **Misc:** Git, Google Cloud Fast, Firebase, Fusion 360, ROS, Gazebo, Docker, Intel Quartus and AutoCad 360

EXPERIENCE AND ACHIEVEMENTS

- **Pennapps Hackathon (Flask, Firebase, Google Cloud Run, and Docker)** — Philadelphia, Pennsylvania
  University of Pennsylvania — *September 2023 - September 2023*
  - Official 3rd Place MLH Winner of Overall Coding Competition
  - Developed the back-end of StudyHedge using Flask and Python, navigated challenges with Docker deployment, integrated the Twilio API, and utilized the Canvas API token to aggregate upcoming assignments and exams, allowing users to input personal events and preferences to generate a tailored study schedule with our extensive algorithm.
- **Machine Intelligence Lab(ROS, Gazebo, Linux, and Git)** — Gainesville , Florida
  University of Florida — *May 2023 - August 2023*
  - Manage an extensive codebase using professional Git practices, ensuring efficient version control, and perform regular simulations to validate machine learning models and robotic systems.
- **Student Assistant for Physics Department** — Gainesville , Florida
  University of Florida — *March 2023 - Present*
  - Leading departmental representation at academic events, enhancing communication and presentation skills at the University of Florida's Physics Department, and actively bridging the gap between students and faculty.
- **Research Assistant for SurfLab(C++, Python, and Git)** — Gainesville, Florida
  University of Florida — *September 2022 - Present*
  - Helping build an application that allows surgeons to conduct the patient's surgery in a simulated environment to mitigate the chances of human error occurring during the real operation
  - Focused on transitioning our changes to the new version of the open-source physics engine it was built on top of and organizing the repository from changes of the new research assistants that I trained.
- **Electrical Engineering Team Co-Leader of Innogators(C/C++)** — Gainesville, Florida
  University of Florida — *January 2022 - September 2023*
  - Pitched ideas in front of the business operations team and to other engineers
  - Created awareness of manufacturing and budget constraints.
  - Creating a virtual reality glove that interacts with the 3D environment using a Raspberry Pi and Mechanics