

Felipe Gomez Villalobos

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EDUCATION

University of California Irvine

B.S. Computer Science

Specialization in Architecture and Embedded Systems

Minor in Informatics

Expected 2024

Irvine, CA

Santiago Canyon College

A.S. Liberal Arts: Math & Sciences With Honors

GPA: 3.89

August 2020 - June 2022

Orange, CA

EXPERIENCE

NASA L'SPACE Academy - Mission Concept Academy.

May 2023 - August 2023

Student Workforce Development Program

- Developed a Preliminary Design Review (PDR) of a NASA mission.
- Earned various skill badges demonstrating proficiency in Teaming, Project Management, Risk Management, NX CAD

Briviant - IT technician Intern

August 2023 - September 2023

- Assemble, configure, prep and assist in shipping of macOS/ESXi servers.
- Apply network settings and configurations for client facing remote servers..
- Automate IT tasks, including the application of server settings, and system configurations
- Create, modify and update documentation for server deployment.

PROJECTS

Guitar Almanac - Python - Flask

[view project](#) - [github repository](#) - 2022

- Backend generates scales and chord progressions for stringed instruments of various tunings and string count
- User inputs two string values, and the output is displayed .
- Flask and Django serves the data back to the user by injecting results in HTML
- Users can expand and customize which scales are generated with an included utility program.
- Displays a tablature 'fretboard' standard musical notation making it accessible to users of all skill levels.

Smart Sprout - C++ Python - esp32 micro controller

2023

- Quarter long project in IoT and embedded systems - focused on connectivity, communications and cloud integration.
- Plant monitoring system designed to provide actionable metrics through an online interface.
- Provides visualization and processing of data gathered from various sensors.
- Uses Python Flask and Django update and display data on an AWS instance.
- Provides basic climate control through the use of ultrasonic mist generators and small fans..

TECHNICAL SKILLS

Programming Languages: C++, Python, HTML/CSS, Typescript, JavaScript, x86 Assembly/RISC-V

Concepts: Computer architecture and organization, Human Computer Interaction - UI/UX development, User Interaction Software - Web/mobile development.

ACTIVITIES

Open Project Space: A year-long technical course in embedded systems. Core focus centered around integrated circuits, breadboarding, soldering, microcontrollers, embedded programming with C++, PCB design, and hardware communication.