

Aldo Flores De Santiago

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Experience



Video Engineering Image Quality Field Test, Apple – Cupertino, CA

January 2026 – June 2026

- Image Quality Assessment:
 - Executed field tests in various conditions, analyzed data, and communicated regressions in video image quality to drive data driven ISP tuning decisions.
 - Performed sanity and build verification testing on devices after internal release and ISP configuration to ensure test integrity and eliminated device-level variables from image quality assessments.
 - Developed documentation covering setup, device procedures, and video review workflows: built practice datasets and reference pages, reducing new member ramp time for the video quality team.
 - Conducted video quality testing of ProRes format to verify format integrity, Final Cut Pro import compatibility, and regression testing with internal tools.
- Tooling:
 - Built a Python module using FFmpeg and OpenCV that extracts frames from videos in a set and generates HDR collages to visualize coverage for team review.
 - Created a High vs Low Dynamic Range module using histogram analysis in Python to provide informal video coverage statistics for video data sets.
 - Developed a PowerPoint export module that automated slide generation from filtered data, streamlining a manual weekly bug reports workflow for the Video Quality team.
 - Applied LLMs as a learning accelerator to gain proficiency in Swift to progress from foundational concepts to building a Swift extraction module to pull into a Python application.

Technical Expert, Apple – Glendale, CA

August 2021 – Present

- Implemented toolset guidelines that reduced repair times by 5% and improving overall service quality.
- Developed a solution for Airpod audio triaging and reduced procedure by 8 minutes.
- Gained proficiency in out of scope Genius Admin role allowing me to step in and provide support.
- Mentored new specialists in troubleshooting and repairs to resolve customer issues and service quality.

Education

California State University, Dominguez Hills – BS in Information Technology

December 2023

Long Beach City College – AS in Information Technology

December 2020

Skills

Languages: Python, Java, HTML/CSS, JavaScript, Bash

Frameworks: OpenCV, NumPy, FFmpeg, Tkinter UI, ImageIO, Pillow, Tailwind, Astro, Vite

Tools: Git, Chocolatey, Ansible, SQL, RHEL, Docker/Apple Containers, Claude Code

Projects



Digital Lenticular Camera Project



- Designed and built a camera using a Raspberry Pi 4B and an Arducam synchronized quad-camera HAT to capture simultaneous multi-angle photos that produce a 3D parallax effect.
- Developed an image processing pipeline using OpenCV and Pillow to split composite frames, stack and animate images which exported to GIFs and MP4s.
- Implemented a WiFi access point file transfer system which enabled media download from iOS and Android devices via a local web server.
- Designed a custom enclosure in Fusion 360 through multiple design and print iterations on a Bambu Lab.

Network Administration and System Infrastructure



- Administered services through Portainer for Docker management, monitoring, and deployment.
- Kept all containers defined in Docker Compose files for easy deployment, updates, and recovery.
- Ran AdGuard as a containerized DNS sinkhole for network-wide ad and tracker blocking across all devices.
- Configured Uptime Kuma for real-time monitoring and alerting of all hosted services and network endpoints.