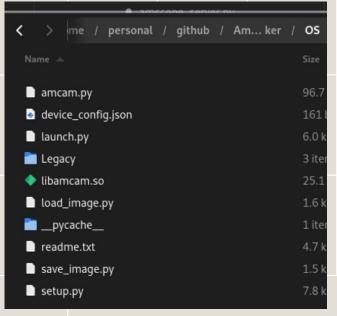


New Universal "OS" Directory

New Directory (File Manager)



- The major goal is to create a set of python scripts to perform a variety of tasks.
- This includes fixing a docker image to a specific device (by serial), building, renaming, saving, importing/exporting, and launching them as desired
- As you can note, however, a .so file appears inside of the directory. This is due to dependencies from amcam.py being utilized in setup.py (for hardware identification)
- This issue will be resolved in the main branch revision to TDC001-Docker, which is the base of this project. I will rewrite this code to utilize general python packages to perform identification and configuration.

Setup.py - A new script addition

Setting Name/Tag/Exposed Port, and Building

```
lect a compose file to modify:
1 Code/Project/docker-compose.backend.yml
1
ter the new Bocker fmage name (e.g., amscope-camera-backend): amscope-camera-backend
ter the new tag (camera-1): camera!
ter the new tag (camera-1): camera!
ter the new tags (camera-1): camera!
dated /home/framework/personal/github/dascope-bocker/Code/Project/docker-compose.backend.yml with image name: amscope-camera-backend, tag: camera1, and port: 8006
you want to rebuild the Docker image? (y/M) y
```

Selection for device_config.json

```
[+] Building 1/1

✓ backend Built
0: MU300 (Serial: TP130704151840307AD86BB1F84A989)
Select camera [0]:
```

device_config.json saves in /OS

■ amcam.py
■ device_config.json
■ launch.py
■ Legacy
● libamcam.so
■ load_image.py
■ __pycache__
■ readme.txt
■ save_image.py
■ setup.py

- The new <u>setup.py</u> script fixes all of the things you'd prefer to have done for you when making a new project with this repo
- Edits are directly done to the docker config file of your choice, from a command line interface
- Lastly, you can choose your preferred device from a list of connected devices, which will create a new config file that other scripts will use
- The device_config.json is a critical file that allows the docker container to be bound to a specific set device

What Works - What Doesn't

/get_ping run in api, returns successful for connection



 As of current, the /get_ping command successfully works,

- /get_ping returns if device_config.json has been found (by the <u>server.py</u> file), and if the device specified is connected or disconnected
- However, much of the functionality of the original server still needs to be reconciled with the new device_config.json, including the "/startup" event, which is the "main" method of our fastapi server

These issues are easy to patch, and will soon be done.

Remaining Roadmap

Hotfix API

-Focus on getting the backend running in its most minimal state quickly

Finish Revising

- -Close up Amscope-Docker documentation and code
- -Build docker images for each camera, save them
- -Test repo on all platforms to verify functionality

Major Release

-Merge the dev branch into the main branch for the first release of the amscope-docker repo

Retool TDC-001

- Rename my original repo, files, and directories to reflect a universal use case
- -Revise documentation to reflect usage for all projects
- -Carry over refined additions from Amscope-Docker into "Lab-Docker"

Major Release (two)

-Release the new and improved version of the "Lab-Docker" repo

Move to Heliotis-Docker

- -The new "Lab-Docker" repo will be used as a template for the Heliotis-Docker repo
- -This dev cycle repeats.