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Senior Project

User Manual:Camera Stitching

Installation requirements: Some programming knowledge required

- 1) Python Installations:
 - a) Pycharm or any other Python IDE
 - b) Python 3
 - c) Numpy
 - d) OpenCV
- 2) Two video(prefered .mov) or basic image(prefered .jpg) files
- 3) Download the folder from my GitHub page
https://github.com/JBuckle555/SeniorProject_CameraStitching

How to run: Using Video files

- 1) You need to put the two video files into the folder directly(you should be able to use live cameras that are threaded and listed as variables)
- 2) You then need to go into the Video2Image.py and put the names of the files under filenames.
- 3) Then you add the Convert_Frames_2_Video(
Filename[pos],PathIn[pos],Suffix}
 - a) Keep in mind suffix is by default set to handle .mov
 - b) This will also create a file to hold all the frames made by this conversion
- 4) The frames will appear in the appropriate folders

How to run: Using Image files

- 1) You need to put all the image files you want to stitch in the folder directly
- 2) You need to use the PythonLessonsFile.py for image stitching
- 3) You then need to put the names(with the suffix like .jpg) into the file name array
- 4) You then call the function
Stitching(imagename[pos],imagename[pos2],'number','Name of the final image')
- 5) The stitched images will appear in the same folder

Uninstallation:

Just delete the entire folder when you are finished.(may be a large folder to delete)