

Instructions for Submitting Code and rosbag

Please follow these instructions to upload your code on the portal. You will have to submit the following four files:

1. [Google Drive Link to your rosbag in a text file.](#)
2. [Python Script of image processing](#)
3. [Python Script of PID](#)

If you have used a single script for both image processing and PID, then submit only that script. Place all of these files in a **folder titled <team_id>_task_4**. For eg: if your Team ID is PB#105, then name it as **105_task_4**.

1. Bag File:

- a) Run the rosbag command to record the /whycon/image_out and /whycon/poses. The following command records the two topics for duration of 600s. **This command should be executed only before arming the drone.**

```
>> rosbag record whycon/image_out whycon/poses --duration=600s --chunksize=10
```

NOTE: The duration parameter is set to 600s in the above command. This has to be set as per the estimated time your code takes to complete. For example, if it takes approximately 60 seconds for your code to complete the task, you must change the duration to 60 seconds. Maximum allowed duration is **600s ONLY**.

- b) Compress the bag file.

```
>> rosbag compress -j bag_file_name.bag
```

- c) Rename the **compressed bag file** as **<team_id>_task_4.bag** . For eg: if your Team ID is PB#105, rename it as 105_task_4.bag
- d) Upload your rosbag to Google Drive with the proper access permissions and Link Sharing turned to ON.
- e) Copy the link into a text file, name the text file as **<team_id>_task_4_rosbag_link.txt**. For eg: if your Team ID is PB#105, rename it as 105_task_4_rosbag_link.txt and include it in your submissions folder.

2. Python Script:

- a) After completing your python script, rename it as **<team_id>_task_4.py**. For eg: if your Team ID is PB#105, rename it as 105_task_4.py and include it in your submissions folder. If you have two python scripts rename them as 105_ip_task_4.py and 105_pid_task_4.py. If you happen to have additional python scripts, ensure you name them correctly and submit.

Compress the folder into a .zip file before uploading. Name the .zip file as your <team_id>_task_4.zip. For eg: if your Team ID is PB#105, then rename it as 105_task_4.zip

