

## e-Yantra Robotics Competition (eYRC-2016)

### Task 0: Navigate a Terrain

Welcome to Task-0 of Navigate a Terrain!!

The aim of this task is to get you started with installation of required software. You need to install three software/libraries and run the provided python script to test the installation of the software/libraries.

You will find the following folders in Navigate\_a\_Terrain along with this Read Me file.

- **First Folder is Installation\_Instructions:**

- ✓ Please find the *Prerequisites.pdf* file in this folder.
- ✓ Follow the instructions in the *Prerequisites.pdf* file to **install** the following softwares:
  1. Python
  2. NumPy
  3. OpenCV

- **Second Folder is Test\_setup:**

- ✓ Please find the file *checkversion.py*
- ✓ Open Terminal/Command Prompt.
- ✓ From Terminal/Command Prompt change directory (using *cd* command) to *Test\_setup*
- ✓ Type *python checkversion.py*.
- ✓ You should get output as shown in Figure 1.
- ✓ Note that Python, OpenCV and NumPy installation comes OK!!

- ✓ In case of discrepancies, make sure that you make necessary corrections.

```
sk-0_LM/Test_setup
% python checkversion.py
=====
Required Python Version is 2.7.x
Installed Python Version is: 2.7.6
Python Installation is OK!!
=====
Required Opencv version is: 2.4.x
Installed Opencv Version is: 2.4.8
Opencv Installation is OK!!
=====
Required Numpy version is: 1.8.2
Installed Numpy Version is: 1.8.2
Numpy Installation is OK!!
=====
```

Figure 1: Output Window after running script

- **Submission Instructions:**

- ✓ If your checkversion.py runs with all OK!!, take the screen-shot of terminal and save it as “output.png”. In Test\_setup folder, a file named “output.csv” gets saved automatically.
- ✓ Save both the files in a folder #Teamid\_Task0
- ✓ Compress the folder into zip format and upload the .zip file as per instructions on Portal Interface.

**Note:** Do not edit any line in “checkversion.py” or in “output.csv”. The files submitted by you will be run through a test script for automatic grading. Teams making any changes will be disqualified.