

e-Yantra Robotics Competition (eYRC-2018)

Hungry Bird – Task 0

Welcome to Task 0 of Hungry Bird!!

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

You will find the following folders along with this Read Me file.

1. Installation Instructions:

- a) [*ROS Kinetic Installation.pdf*](#)
- b) [*V-REP Installation Instructions.pdf*](#)
- c) [*V-REP ROS Interface Installation Instructions.pdf*](#)

Follow the instructions in the files to install the following software. Install them in the order given below:

- *Ubuntu 16.04*
- *ROS*
- *V-REP*
- *V-REP ROSInterface*

2. Task:

- a) [*task0_hb.ttt*](#)
 - b) [*Problem Statement.pdf*](#)
- Understand your task by going through *Problem Statement.pdf* and accordingly create a ROS package to detect markers placed in V-REP scene *task0_hb.ttt*
 - Strictly follow the submission instructions mentioned in *Problem Statement.pdf*.

3. Tutorials:

- a) [*Tutorials Read Me.pdf*](#)
 - b) [**Python**](#)
 - c) [*Getting familiar with ROS.pdf*](#)
 - d) [*Getting familiar with V-REP.pdf*](#)
 - e) [*Introduction to ArUco markers.pdf*](#)
 - f) [*Introduction to WhyCon markers.pdf*](#)
 - g) [*Linux Tutorials.pdf*](#)
 - h) [*Tips and Suggestions.pdf*](#)
- Follow the instructions in [*Tutorials Read Me.pdf*](#) to learn linux, python, V-REP, ROS, WhyCon and ArUco markers.