

## e-Yantra Robotics Competition (eYRC-2018)

### Task 0 – Mocking Bot

Welcome to Task 0 of Mocking Bot ! The aim of this task is to get you started with installation of required software and learn the resources related to the software.

This task is divided into three parts:

- Software Installation
- Testing the Setup
- Learning Resources

**Note:** It is recommended in this theme to use only **Windows (8 or 10)** OS machine.

You will find the following folders in **Task 0** that contains this **Read Me** file.

- **1. Installation\_Instructions**
  - Please find the following files in this folder:
    - [Python\\_and\\_libraries\\_Installation.pdf](#)
    - [Sonic\\_Visualiser\\_and\\_plugins\\_Installation.pdf](#)
  - Follow the instructions in these files to install the following software/libraries:
    - Python
    - NumPy, Scipy, Pyserial, Matplotlib
    - Sonic Visualiser
    - Aubio Vamp Plugins
- **2. Test\_Setup**
  - Please find the following files in this folder:
    - [Test\\_Setup\\_Read\\_Me.pdf](#)
    - test\_setup.py
    - cardinal.pyc

- Follow the instructions in the **Test\_Setup\_Read\_Me.pdf** file to test the software/libraries installed and complete the **Task 0** successfully.
- **3. Resources\_to\_Learn**
  - Please find the following file in this folder:
    - [Resources.pdf](#)
  - Follow the instructions in this file to learn about
    - Musical notes and harmonics
    - Relationship between musical notes and frequencies
    - Sonic Visualiser tools and features
    - How to use installed Vamp plugins
    - How to use Freesound
  - Follow the resources provided in this file that will help you solve future tasks.

*... Best Wishes ! ...*