

Project Name: Gesture controlled Quad-copter.

Project Description:

We plan to make a quadcopter which can be controlled by basic hand gestures. The main aim is to create interface between the quadcopter remote control and hand gesture detector camera.

Implementation Steps:

1st week : Talk to seniors and mentors, decide plan of action and the required materials and plan the design of the quadcopter.

2nd week : Buy the materials required and start making the quadcopter plus the gesture recognition interface.

3rd week : Test the basic flight for the quadcopter prepare the algorithm for the image processing and read about control theory.

4th week : Code for the image processing part and control of the RC.

5th week : Connect the interface and remote with the receiver in the quadcopter.

6th week : Complete the construction and perform test runs.

Learning objectives:

Try to learn about control theory and how unstable flights are controlled with remote controls. Image processing by open CV. Basics of transmission and receiving using Remote Control and gesture recognition interface.

Components required and approximate cost:

Not planned.