ITSP ABSTRACT

Quadcopter with a gripper mounted on it.

we are building a quadcopter with hand based gripper mounted on it.

The gripper mounted on it will serve as human reach which are inaccessible and can perform task such as actution , carry stuffs etc.

We will be using Gyroscopic sensors to improve the stability of the quadcopter.

The gripper will be controlled by servo motors and will try to implement solenoid based actuators.

The tasks will be performed using main processing unit which will be Raspberry Pi as it will be suitable furthur developments or features to be added.

Based on success we will improve it to Artificial Intelligence to perform tasks using camera feedback and image processing.

We will mount one GPS reciever to get the positon of the quadcopter which will be used in Artificial Intelligence based tasks.

week 1 and week 2

we will start to design the main frame of the quadcopter and the gripper.we will think of maximising the payload of the quadcopter. we will learn the raspberry pi programming and its protocols .

we will learn using Gyroscopic sensors and controlling brushless motors.