Students' Technical Activities Body

1RE16 DRONES

IMAGE PROCESSING BOT

1. Briefly provide a Project Description including the reforms made by your seniors and

mentors?

To make a image processing bot which detects balls of specified colour and after the initial phase

it goes and collects the ball.No modifications were made in the first week.

2. Full Plan of Action (POA) of the Project?

Week 1 :learning image processing in opencv with C++ and hence making the basic code for the bot

for detecting the colour ball

Week 2:Arduino coding running serial communication to run the motors and hence completing the
initial phase of the bot

Week 3:making the gripping mechanism for collecting the ball

Week 4:Actuating the gripping mechanism and improving the actual bot.

3. What work was planned to be completed till 11th May and what work was actually

completed?

learning image processing in opencv with C++ and hence making the basic code for the bot

for detecting the colour ball

Coding for ball detection was completed according to the plan but with monor errors.

4. Give an estimate budget of the project (Budget should be made keeping in mind all the

components required), divide it in categories. What purchases were made till 11 th May?

around 4000/-

first week: 400 for web cam

5. What problems did you face with respect to project work in this time? Did you find a

solution to them or are they still pending? What was the solution to these problems?

Code gives error in detection when environment is changed

6. Contribution made by each team member?

A-learning opencv and arduino coding

B- learning opencv and arduino coding

C- learning opencv and arduino coding
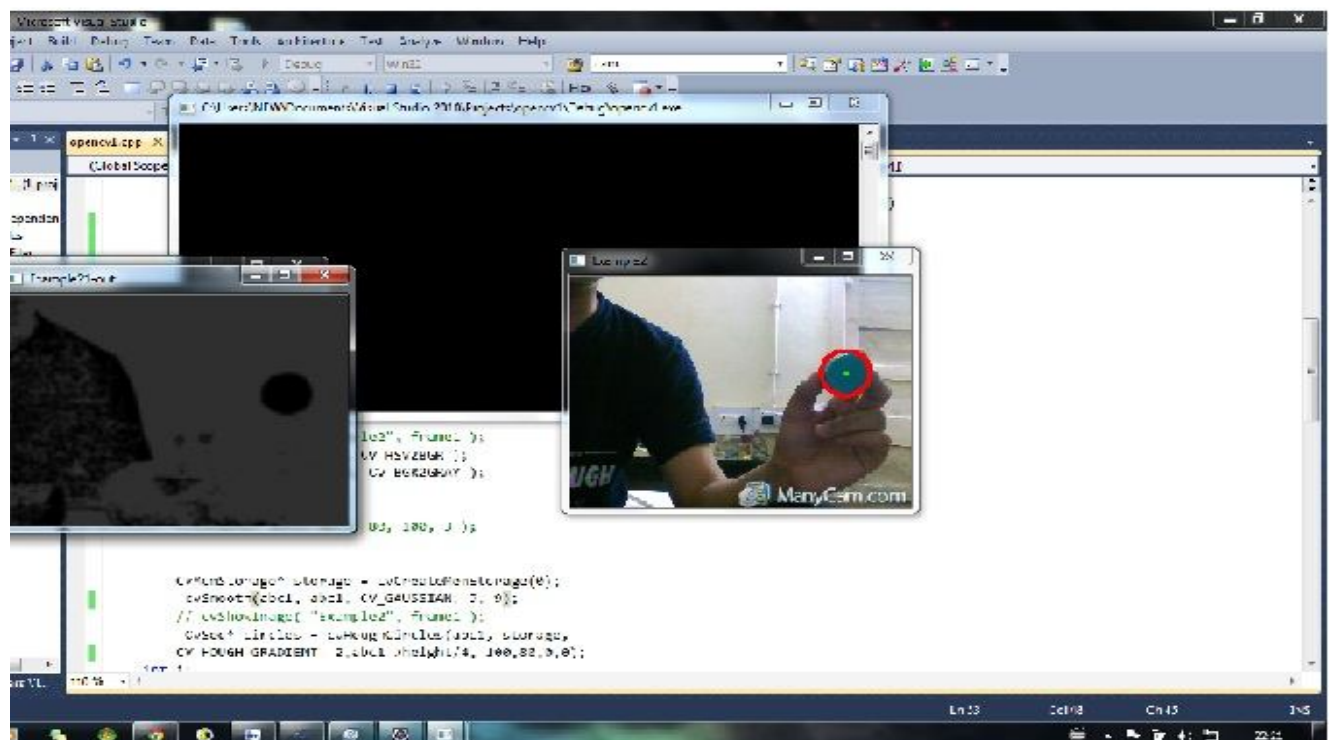
 D- learning opencv and arduino coding

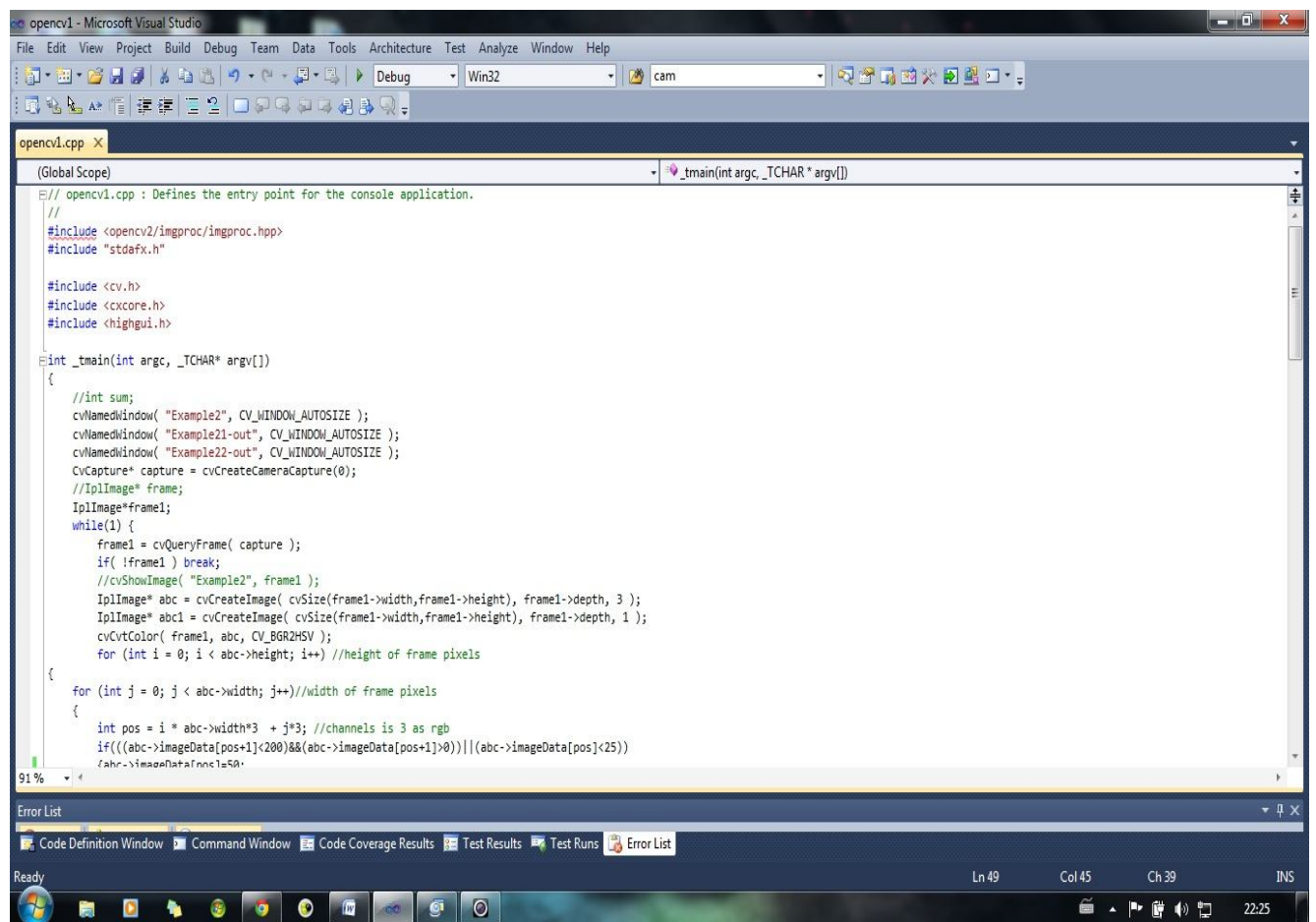7. What was discussed in the 1st and last meeting before 11th May with your mentor?

Project work procedure was discussed.

8. What is the work-plan for the next week?

Arduino coding running serial communication to run the motors and hence completing the initial phase of the bot

9. Project Pictures- Upload these pictures on the facebook group (ITSP 2012) also.

Institute Technical Summer Project