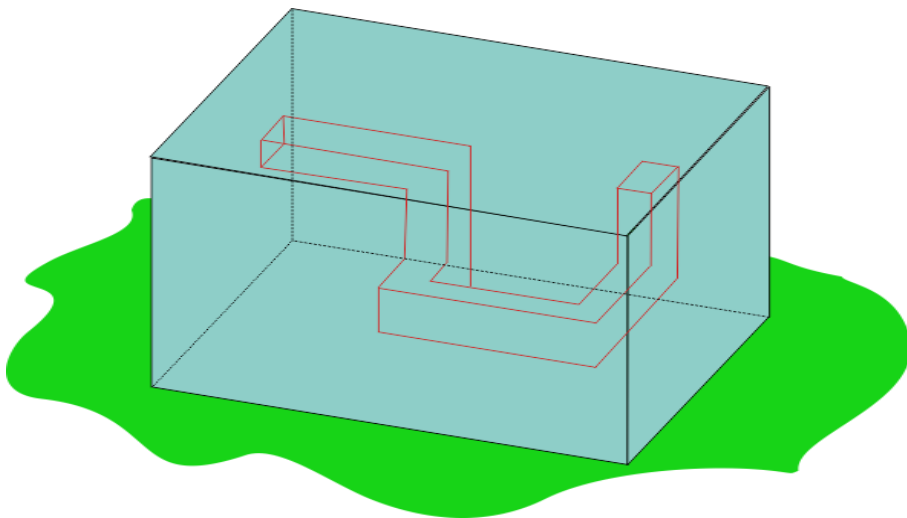


EVENT DESCRIPTION:

National Students' Space Challenge or [NSSC] ,2011 has conducted an event at IIT KHARAGHPUR on the dates of 27 and 28 th august . They conducted 4 events , in which the event we[Prashanth CSE-A ,Ravi kiran CSE-B] participated is called ' the submerge ' .the challenge is to create an under water rover which should go into a 'maze' which is 3 dimensional tunnel having a constant rectangular cross section all over. The path will be open from the top so that the participants can see their robots easily. The path may have floating obstacles that might partially obstruct the path of the rover and the robot has to avoid those obstacles by appropriate changes in orientation and position. The teams will be qualified only if the ROVER reaches the end of the maze.



JUDGING PARAMETERS :

The teams will be judged on the basis of total time the rover will take to traverse the complete arena and the total collisions the robot will have with the obstacles or the walls of the maze.

The points will be awarded according to the formula:
 $1000 - (T * 10) - (C * 2)$

Where ,

T is the total time (correct to nearest minute)

C is the total number of collisions.

In case of second run 20% of the actual points earned in the second run will be deducted. The points of the first run will not be added in the second run.

RESULT: OUR ROVER HAS REACHED THE END WITHIN 1 MIN:4 SECS WITH 3 COLLISIONS, LEADING 4 TH IN THE COMPETITION AND WON APPRECIATION CERTIFICATE FROM THE PRESTIGIOUS UNIVERSITY .

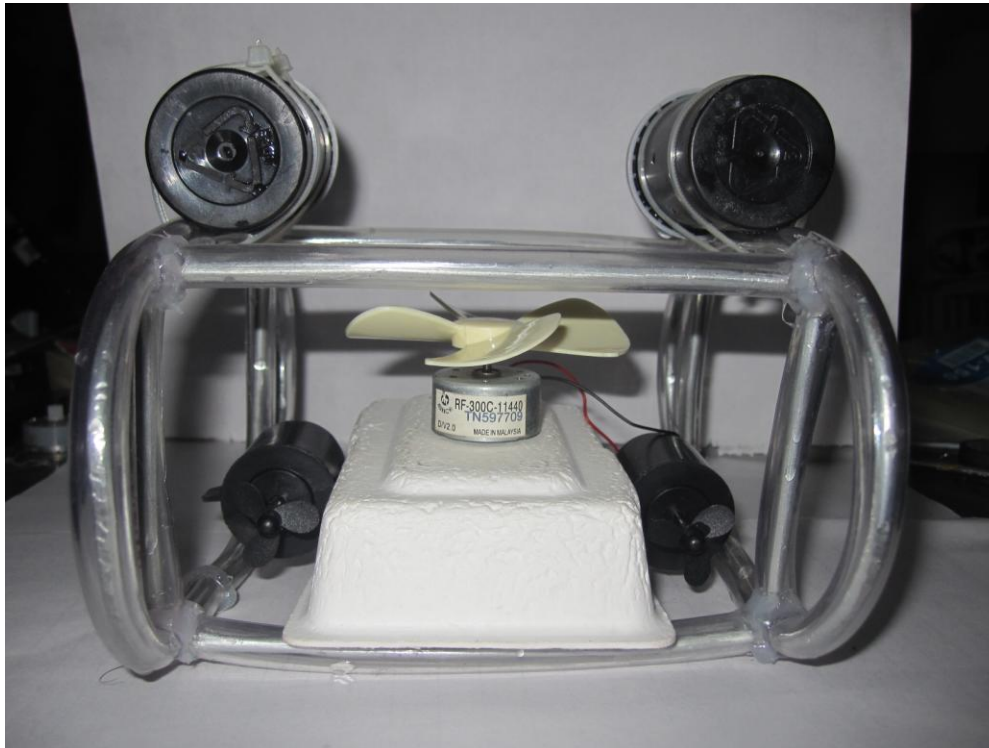
For further Information about the event contact

<http://nssc.spats.in/index.php>

CONSTRUCTION OF OUR AQUABOT :

The material used for the construction of the ROV are plastic pipes , Hanger metal ,holders , reel-boxes ,propellers ,motors ,wires, switches and batteries

Pictures





EVENT DESCRIPTION: The prestigious university of NIT Warangal conducted its annual technical fest 'TECHNOZION' in the month of September with many events .The event we attended is 'Jahaaz '– racing on-water boats .

1. GENERAL SPECIFICATIONS AND PROBLEM STATEMENT

■Construct a Wireless REMOTE Controlled Boat powered ONLY by ELECTRIC MOTORS.A team should consists of a minimum of 3 and a maximum of 5 members All the team members need not be from the same College. No Two teams should have a common Participant. All team members must carry a valid identity card of their respective educational institute. All the team members must register for Technozion.

2. Boat Specifications:-

• The Maximum dimensions of the boat are 60(length)*25cm (width).The Boat must be controlled by Wireless Remote Control. The Motors used must be DC electric Motors. It is advised to have 2 frequency ranges for the remote. The dimensions of boat include the propellers and rudder also. The Hull of the Boat should NOT be READY-MADE. The Boat must have an On-Board Power supply for providing power for any mechanism used. External Supply is strictly prohibited. It is strongly recommended that the complete body of the boat is electrically insulated from water.



3. Judging parameters :

AFTER the qualifying round. The boat over the water, has to overcome obstacles by not colliding and the after reaching a certain point, has to circle a track with the remaining time. The points for the laps are given in arithmetic progression example: 1/2 round – 100 points

1 rounds- 200 points + 100 points

3/2 rounds-300+200+100 points

4.RESULT :

Our boat name " CAPRATES" .Circled an amazing 5 and half rounds after completing the point hence we where awarded a little above 6600 points and we stood **SECOND** in the competition and won a cash prize of RS 8000/- and a trophy .

