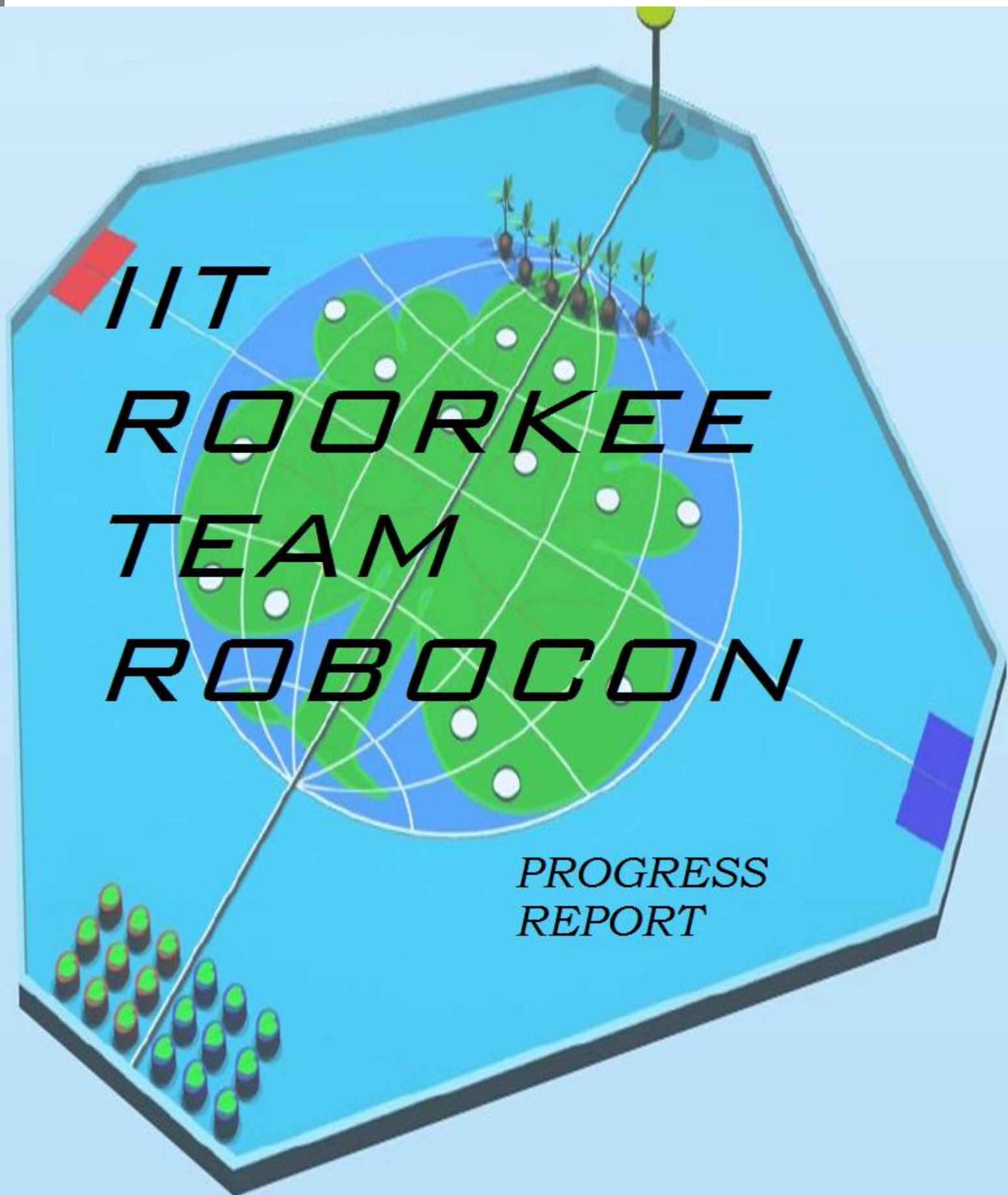
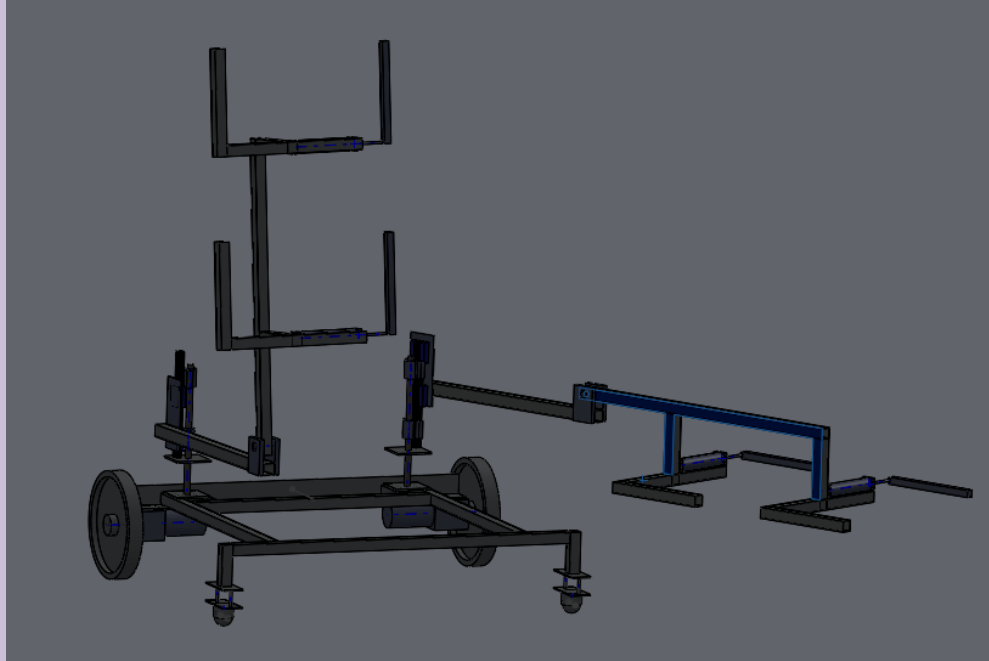


ROBOCON 2013 MONTHLY UPDATE



AUTOMATIC ROBOT

- This is the Solidworks model, designed by us in the month of September.



The function of the robot according to our strategy is to place 4 leaves on the arena. Two leaves in common zone and two in the Team zone. Our main aim this year is to finish the whole task in less than 3 minutes with the use of encoders and pneumatics.

Our sincere thanks to TECHNO PNEUMATICS for they provided us with the pneumatic cylinders and solenoid valves for electronic control in the “whole sale rate”.

[<http://www.techno-pneumatics.com>]

TechnoTM
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AUTOMATIC ROBOT

Biggest challenge before us was to successfully test the encoders for the locomotion of the robot. According to our strategy, we selected a path on which the electronics Team of Robocon successfully traced the path using magnetometer and encoder. Use of line sensors is done for placing the leaves exactly in the ring.

- Automatic robot being tested on the arena on the desired path by Electronics Team of Robocon
- Below is the testing of picking and placing of leaves in the rings.



Again the hurdle of money came in our way as the encoders were very costly. But our sincere thanks to DEEPAK GOYAL from DIGILINE SYSTEMS whose valuable contribution enabled us to buy encoders in no time.

[<http://www.digilinesystems.com>]

ISO 9001-2008 / JAS-ANZ



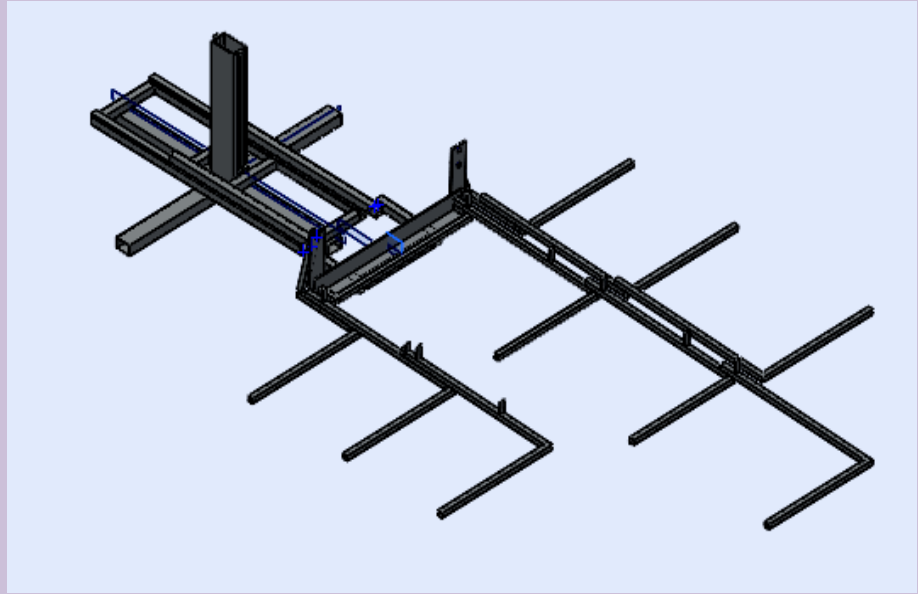
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MANUAL ROBOT

- THIS IS THE DESIGN OF MANUAL ROBOT AGAIN IN THE MONTH OF SEPTEMBER.



The function of the Robot according to our strategy is to pick seven leaves, place three in the manual zone and carry the rest four leaves to the automatic zone for the Automatic Robot.

Thanks to the Manual Team of Robocon which had put day and night to fabricate the Robot working hard even in the December vacations to assemble the Robot. Testing of Pneumatics is done with the help of Techno Compressor providing 4 bar Pressure.



MANUAL ROBOT

Our pace of work was at its peak until the biggest hurdle of money came in our way in the end of December when we had to meet the following targets but we had to halt.

- 1. INDUSTRIAL SLIDERS FOR MANUAL ROBOT(11,000)**
- 2. SERVO MOTORS - 6(15,000)**
- 3. POWER AND DRIVING PCB(15,000)**
- 4. THREE BATTERIES AS POWER SOURCE(8,400)**
- 5. BATTERY CHARGERS(4,000)**
- 6. TRANSPORTATION COST(40,000** icludes transportation of both robots and the team)
- 7. BACK UP MATERIAL (10,000)**



SNAPS FROM WORKSHOP



OUR DEAREST ALUMNI - THANKS TO ALL

I take this opportunity to thank our following alumni for their continuous support and efforts to make us fulfill our dreams and give the students of IIT ROORKEE the opportunity to excel in their fields of Technology.

Without them our efforts are incomplete.

- Dr. Shamsheer Prakash (1954 batch)
- Mr. Rajendra K. Aggarwala (UOR-IITR 1953)
- Mr. Alok Jain (Civil Engineering, 1985 – 1989)
- Mr. Sanjiv Sinha (ECE-1989)
- Mr. Rajiv Rai (1989)
- Mr. Amit Kumar (Architecture-2006)
- Mr. Sushil Goel
- Mr. Alok Awasthi (UOR-IITR 1988)

We request all the IIT alumni to help us in this endeavor. We aim to mark a strong presence of the brand name IIT in this prestigious event and your support will strengthen us against other international teams.

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