



Somaiya Vidyavihar

K J Somaiya College of Engineering

(An Autonomous Un-aided Institute - Affiliated to University of Mumbai & Approved by AICTE)



ROBOCON KJSCE

Website link: https://www.somaiya.edu/kjsce/student_life/student_activities/PROJECTS/en

Email: roboconkjsce@somaiya.edu Contact: 91 022 6644 9191 / 9016 / 9475 / 9175 / 9275

TEAM KJSCE ROBOCON – Annual Report 2017 - 18



Vidyanagar, Vidyavihar, Mumbai-400 077, India.
Telephone (91-22) 6644 9191 Fax: (91-22) 21025272
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Team Members Of Year 2017-18:

1. Kushal deokar
2. Meet Mehta
3. Soofiyan Atar
4. Omkar Ghuge
5. Hamza Bootwala
6. Tej Pradhan
7. Sharad Yadav
8. Adil shaikh
9. Rishi Pandey
10. Prasannajit Giri
11. Varun Bhatia
12. Abhishek Kansara
13. Aniket Prasad
14. Pragnesh Bhalala
15. Sagar Patel
16. Shrey Shah
17. Himanshu Bharakhada
18. Aniket Desai
19. Shreyas Borse
20. Ashwin Prajapati
21. Vihang Natu
22. Durgesh Mohanty
23. Cherag Mevawala
24. Piyush Mehta
25. Aakash Chothani
26. Ameya Konkar
27. Ashawami Mulik
28. Owais Shaikh
29. Keval Mamaniya
30. Anuj Vadecha
31. Sahil Rajpurkar
32. Poojan Dholakia



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Competition Details:

As soon as the theme arrived the whole team started thinking about various mechanisms which would help complete the given task efficiently. A brainstorming session was held wherein everyone's ideas were discussed after which 3 mechanisms were shortlisted for the automatic robot namely Catapult, Swing Arm and Murlin's Trebuchet. Prototypes were made and the efficiency of each of them was tested. Simultaneously research was being done on the various materials which could be used to make shuttlecocks needed for throwing. Work on manual robot had begun along with the designing of rack used for placing shuttlecocks.

Once the mechanisms were finalized, intensive testing was started. In the meantime, the arena as described in the rulebook was made on the second floor of our college.

From the first week of January, rigorous testing was being done on the arena every day and even during the night time. During testing, it was found that the dispensing of shuttlecock from the manual to the automatic robot was quite difficult and it needed to be made easier for the controller.

Minor improvements were being made on the robots to increase their efficiency. By the end of February, we had completed our objective during the practice sessions and were ready for the competition.

After reaching Pune for the competition, we settled down quickly and started with our testing. A day before the competition we were told that the shuttlecock must not be thrown with a loop but it should be thrown using a knot. A discussion with the officials about the discrepancy in the rulebook didn't help and we had to redesign the throwing gripper of the automatic robot in one night.

After having successfully made a new gripper we got only a few of practice sessions on the practice arena due to which we couldn't gather the appropriate set of readings.

match. We couldn't score much due to the mentioned reasons and even the controller hadn't had time to adjust to control the robot with the new gripper.

The same day during our practice sessions, we were able to achieve "Rong Bay" were confident of doing the same in the following matches.

During our second match, one of our proximity sensors which were supposed to determine the position from which the automatic the robot was supposed to throw for "Rong Bay" malfunctioned and hence we couldn't achieve the objective.



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Team Photos



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Team KJSCE Robocon 2018 along with mentor Prof. Avinash Prabhudesai

Automatic and Manual Robot of Robocon 2018



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