TECH EXPO

Robovanza brings to you a Tech Expo which is the ultimate platform to showcase your problem-solving skills. It puts to the test your ability to crack problem statements with innovativeness and social responsibility.

In this event one must choose a problem statement (one or more based on one's interest) and provide a solution using a prototype. An abstract of the idea is required to be submitted initially. These abstracts will be scrutinized by our team and the ones that are selected will have to demonstrate their idea using a Power Point Presentation a partial or fully working prototype of the proposal on the day of event. The project will be evaluated by a panel of judges and the best ones will have exciting prizes to look forward to.

Note: If the abstract is exceptional and your idea is very unique, there is a chance that Chaitanya Bharathi Institute of Technology will fund your project for further development.

The abstracts should be sent to **robovanza2k19@gmail.com**. The deadline to submit the abstracts is 6th September 2019.

You are free to present your own problem statement or choose from the ones mentioned below.

Problem statements:

1. Design and development of a battery powered system – A means of generating electrical power from the person (manipulator).
2. Make a robot which can help farmers in harvesting automatically or semi automatically with minimal cost. (You can select any crop and build the robot for that).
3. Make a robot which can help farmers in ploughing the fields automatically.
4. Make a robot which can give farmers information about different types of crops, weather reports of the region, different types of pesticides, their effects and suggest the required type and quantity of pesticide to be used when it scans the crop.
5. Make a robot which helps identify and rescue a child trapped in borewell holes.

6.Make an autonomous robot which can paint the walls.

7.Make a robot which can fight fire in a fire accident.

8.Make a robot which can be an educational guide in the schools. Design and features are more important for this product.

9.Make a robot which can be used in hospitals to store the patients' data, like the number of visits, doctor's prescription etc. It should identify the person either with thumb impression or facial recognition.

10.Make a robot which can be on the roads and help the police with its monitoring system, while updating the data to the central server.

11.Make a robot which can swim in ponds or rivers and get the data like, growth of the fish, pH level of water, turbidity, water purity level etc.

12.Make a robot that looks like an insect or a bird, which can fly and collect data as part of surveillance or reconnaissance.

13.Make a robot to be used at the borders by the Army, which can monitor the surroundings 24/7 and send data about suspicious activity to the military base camp.

14.Make a robot which can conduct a land survey to calculate the area of the land and divide it into subplots.

15.Make a robot which can play musical instruments.

CERTIFICATE POLICY:

A certificate of participation shall be awarded to all participating teams, except for those who were disqualified.

A certificate of appreciation (or excellence) shall be awarded to the winners.

Contact:

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