WHIZFEST 2023 Robotics Competition Guidelines and Instructions

1. Introduction

WhizFest 2023 is a global platform for showcasing your robotics talent across categories like Robo Race, Line Follower, and Innovation Challenge. The competition is divided into Junior (up to 12 years of age) and Senior (up to 17 years of age) levels. This document provides detailed guidelines on competition structure, rules, regulations, and submission protocols.

2. Competition Categories

The competition comprises three categories: Robo Race, Line Follower, and Innovation Challenge. The Innovation category is designed for those who aspire to push the boundaries of robotics possibilities. Submissions in this category can be functioning robot models or 3D simulations of robots.

3. General Rules and Regulations

- All team participants should be from one institute (school/activity center) only and/or led by a school teacher/activity center trainer.
- The Junior category is open to participants up to 12 years of age, while the Senior category allows participants up to 17 years of age.
- Each team should comprise a minimum of one and a maximum of four participants.
- All participants should bring their registered ID proofs on the day of the competition.
- Fair play, respect for others, and adherence to the rules are paramount. Breach of these principles may lead to disqualification.
- The organizers' decision will be final concerning all competition-related matters.

4. Registration

You can register for the competition at whizrobo.com/whizfest. The registration fee is Rs 1500/- per school and Rs 1000/- per individual. Students can participate as a team or as individual teams. Teams can consist of 1-4 students.

5. Submission Guidelines

5.1 Video Submission

The participants must submit a Google Drive link to a video of their robot by 20th July, 2023. Instructions for video submission and editing are detailed in the section below.

5.2 PowerPoint Presentation

Participants are also required to submit a presentation of a maximum of 5-6 slides outlining their project. The presentation should include:

- A brief introduction to the team and the members.
- An overview of the project, including its purpose and objectives.
- A detailed explanation of the design and functionality of the robot.
- Any challenges faced during the project and how they were overcome.
- The results achieved or expected from the project.
- Video shouldnt be more than 3mins.

The presentation should be submitted by the 20th of July, 2023, at support@whizrobo.com.

6. Video Editing and Submission Instructions Using Canva

1. **Open Canva:** Navigate to Canva.com in your web browser and sign in to your account. If you don't have an account, create one for free.
2. **Create a Design:** Click on the "Create a Design" button on the top right of the screen. In the drop-down menu, select "Custom dimensions". In the popup that appears, type the dimensions of your video (e.g., 1920x1080 for a full HD video). Click "Create new design".
3. **Download the Frame:** Go to www.whizrobo.com/whizfest-frame.png and download the frame.
4. **Upload the Frame & Video to Canva:** Go back to your Canva design. Click on "Uploads" on the left side panel, then click "Upload an image or video". Locate the frame and video files on your computer, select them, and click "Open".
5. **Add Frame & Video to Your Design:** Click on the video first to add it to your design. Adjust the size to fill the entire design space if necessary. Then click on the frame image to add it on top of the video.
6. **Adjust Layer:** If the frame is not on top of the video, you'll need to adjust the layering. Click on the frame, and in the top right corner, click on the "Position" button and select "Forward" or "ToFront" until the frame is on top of the video.
7. **Preview & Adjust:** Click on the "Play" button in the top menu to preview your video with the frame. Make any necessary adjustments.

8. **Download the Final Video:** Once you're happy with your design, click the "Download" button in the top right corner. Ensure that the file type is set to "MP4 video" and then click "Download" again.
9. **Check the Downloaded Video:** Go to your downloads folder on your computer and play the video to make sure everything looks correct.
10. **Upload Video to Google Drive and Share the Link:** Follow the steps outlined in the earlier section to upload your video to Google Drive and share the link in an email to support@whizrobo.com.

7. Judgment Criteria

The submissions will be evaluated on the following parameters:

- **Innovation & Creativity:** How unique is the design and functionality of your robot? Does it have features that set it apart from others?
- **Presentation:** Is your video presentation clear, engaging, and easy to understand? Does it effectively demonstrate the use and features of your robot?
- **Execution:** How well has your robot been built and programmed? Does it perform its intended functions effectively and consistently?
- **Impact:** Does your robot have the potential to solve a real-world problem or improve people's lives in some way? The more useful the application, the higher the score.

8. Prizes

The competition will have the following awards, each carrying a certificate and a trophy:

- **Best Video Submission:** Awarded to the team with the most effective and engaging video presentation.
- **Most Liked Video:** Awarded to the team whose video receives the most likes on social media platforms (Instagram and Facebook).
- **Best Presentation:** Awarded to the team that gives the most compelling and clear presentation of their robot and its features.
- **Most Creative Robot:** Awarded to the team with the most unique and innovative robot design.
- **Most Innovative Robot:** Awarded to the team whose robot demonstrates the most advanced functionality and utility.

9. Advertising Your Entry

To get more likes for your video, make sure to advertise your submission on your social media platforms. Here's how:

- **Share Your Video:** Share your video on your Instagram and Facebook accounts. Your friends, family, and followers will be able to see your work and 'like' your video.
- **Tag WHIZROBO:** Make sure to tag our official WHIZROBO Instagram (@whizrobo) and Facebook (whizrobo) pages in your post. This allows us to see your entry and share your post on our platforms.
- **Use the WHIZFEST Hashtag:** Include the hashtag #whizfest in your post. This makes your post searchable by anyone who is interested in the WHIZFEST competition and can lead to more 'likes' and attention for your video.

General Rules & Regulations:

- All team members should be from one institute (school/activity center) only and/or a school teacher/activity center trainer.
- Participants must be part of an institute (school or activity center) or led by a teacher/activity center trainer.
- The Junior category is open for participants up to 12 years of age. The Senior category is for participants up to 17 years of age.
- Each team should consist of a minimum of one and a maximum of four participants. It is essential for students to bring their registered ID proofs and printed tickets with QR codes on the day of the competition. Tickets can be printed from the registration website whizrobo.com/whizfest.
- The registration fee is Rs 1500 per school or Rs 1000 per individual. Students can participate as a team or as individual teams. Teams can consist of 1-4 students.
- Fair play, respect for others, and adherence to the rules are expected from all participants. Breach of these principles may lead to disqualification.
- The organizers' decision will be final in all matters related to the competition.

Junior and Senior Categories:

- Robo Race
- Line Follower
- Innovation Challenge

Robo Race:

Objective: Design and program autonomous robots to navigate a challenging race track, showcasing speed, agility, and precise maneuvering.

Robot Specifications:

- Robots must operate autonomously.
- Robots cannot exceed the size limitations of 30 cm x 30 cm x 30 cm.
- The weight limit is 3 kg.

Judging Criteria:

- Speed: The robot that completes the track in the shortest amount of time is declared the winner.
- Agility: Robots that can navigate the course effectively and avoid obstacles are favored.
- Precision: The ability to accurately navigate the track is crucial.

Line Follower:

Objective: Design and program autonomous robots that can follow a designated line on a track as quickly as possible.

Robot Specifications:

- Robots must be autonomous and cannot exceed specified size and weight limitations, typically around 30 cm x 30 cm x 30 cm and 3 kg.
- The robot must have sensors capable of detecting a designated line on a track.

Judging Criteria:

- Speed: The robot that completes the track in the shortest amount of time is declared the winner.
- Precision: The ability to accurately follow the line without deviation is critical.
- Autonomy: The robot must not be controlled by an external entity during the race.

Innovation Challenge:

Objective: Participants must design and showcase a robot capable of addressing everyday challenges, enhancing our quality of life.

Judging Criteria:

- Innovation: Participants must demonstrate the unique, novel aspects of their robot's design.
- Effectiveness: The robot should be capable of solving the identified problem efficiently.
- Scalability: Consideration will be given to designs that could be scaled or adapted for a broader range of tasks or applications.
- Presentation: Clear, compelling presentations that highlight the robot's design, abilities, and problem-solving skills are crucial.

Disqualifications:

Actions that can lead to disqualification across all categories include:

- Failing to meet robot specifications
- Not respecting competition norms
- Failing to adhere to fair play principles.

Competition Norms:

- Adherence to all rules and regulations is mandatory.
- Participants must respect the judgment and decisions of the organizers.
- Participants must exhibit good sportsmanship and fair play.
- Teams must keep their work areas clean and safe and must not interfere with other teams.
- Participants must be ready for their competition slots and adhere to the competition schedule.
- Any form of cheating, including the use of unauthorized tools or materials, will lead to immediate disqualification.

Note for Innovation Challenge:

Participants in the Innovation Challenge should submit their Google Drive link video of their robot by 23 of July, 2023 to the mail support@whizrobo.com..

For any further queries, please write to us at support@whizrobo.com.