

Student Robotics Demonstration Contest 2023

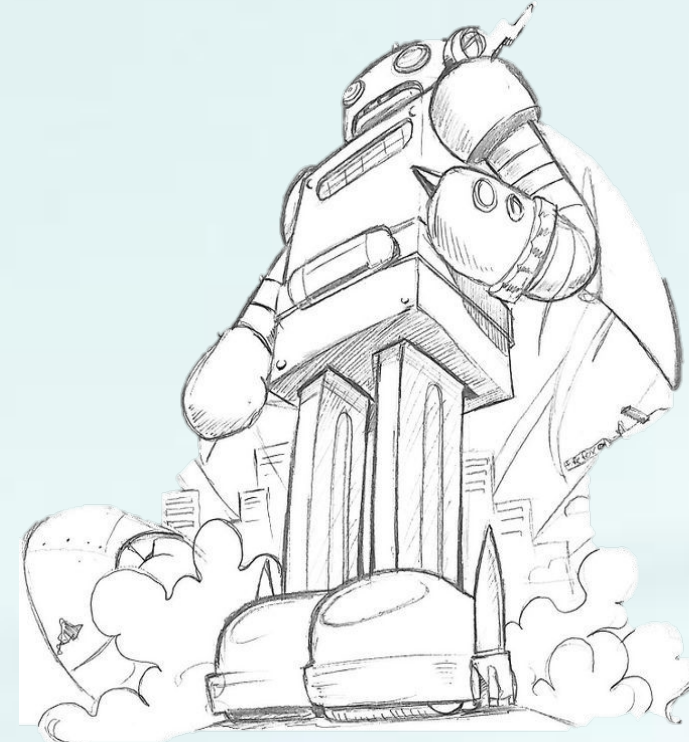
The CMD Event Organization Committee, Engineering Contest Subcommittee is pleased to announce its fourth edition of Student Robotics Demonstration Contest. This is the platform for students to demonstrate their engineering skills by solving problems through robotics.

Hint: It can be related to Industrial Applications (e.g. (semi-)autonomous material supply delivery system in an industrial facility - line following robot) or just a student's hobby that somehow automates an everyday task or activity

Submission link:
<https://forms.gle/AfoZmQdPJvveFee4A>

The Competition

- Participants need to submit a report of their robot mentioning all the construction details and photos/Videos of Robot. (Deadline is April 30, 2023)
- Send your Reports at: <https://forms.gle/AfoZmQdPJvveFee4A>
- The report should include:
 - Robot's Mechanism, explained.
 - Technical details and Novelty analysis.
 - Photos of Robot (all 4 sides).
 - A video (proof of robot's fine & steady functioning).
 - All team members details (Full Name, IEEE Number, Country, University or Company Name).

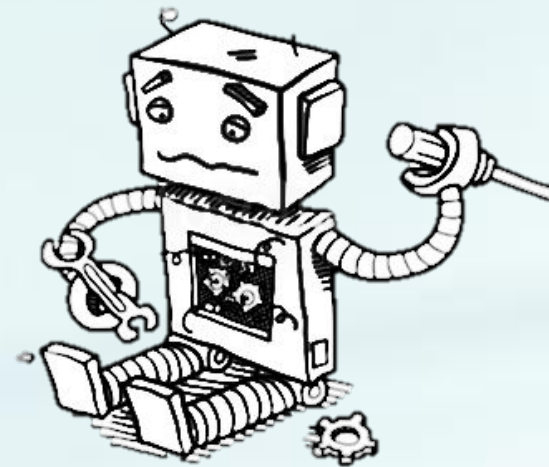


Cash prize

1st Prize: Cash Award

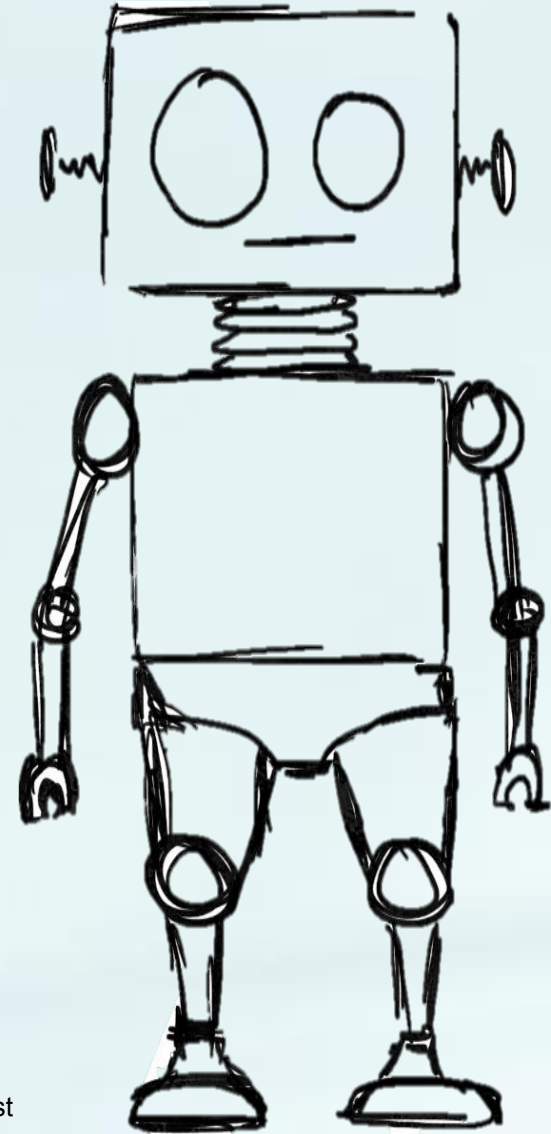
- Up to Three (3) Selected Teams will get chance to demonstrate their robots at the 2023 IAS Annual Meeting pending travel restrictions due to the ongoing covid-19 pandemic. The travel grant is subject to IEEE travel regulations, the modality of CMD activities during the IAS Annual Meeting and the status of the Annual Meeting Travel Grant Program (AMTGP). CMD reserves the right to suspend the AMTGP.
- One (1) Member from each selected team will be funded to attend 2023 IAS Annual Meeting.

NOTE: Failure to demonstrate the robot during the annual meeting will result in non-reimbursement of travel. Teams are expected to come up with extra(backup) components, for unanticipated last minute technical glitches.



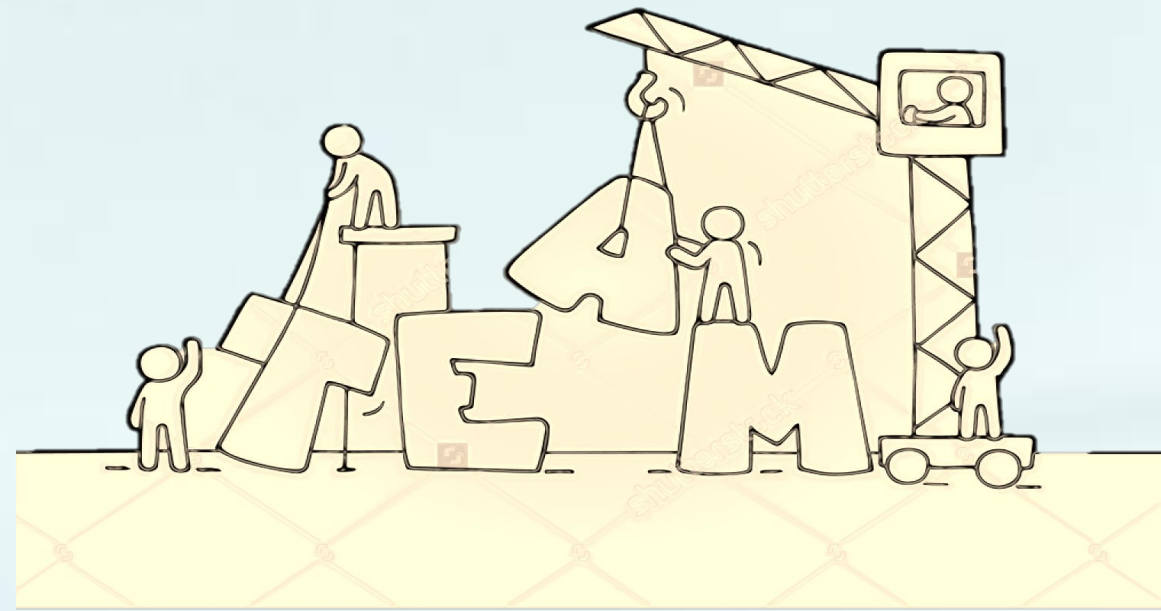
Rules & Regulations

- The maximum area provided for robot's demonstration will be 2x2 meters.
- Participants will be responsible for all materials required on-site for final contest demonstration.
- Teams are not supposed to use any readymade (e.g. Lego) components or readymade gripping mechanism. However, participants are allowed to use readymade gear assemblies. Such violations will lead to immediate team's disqualification.
- Robots must have an on-board power supply, at all times. If in case due to Airline policy you are not allowed to bring your batteries, you can request that the organizer arranges them for you. (Battery's Technical details should be included in the report submission).

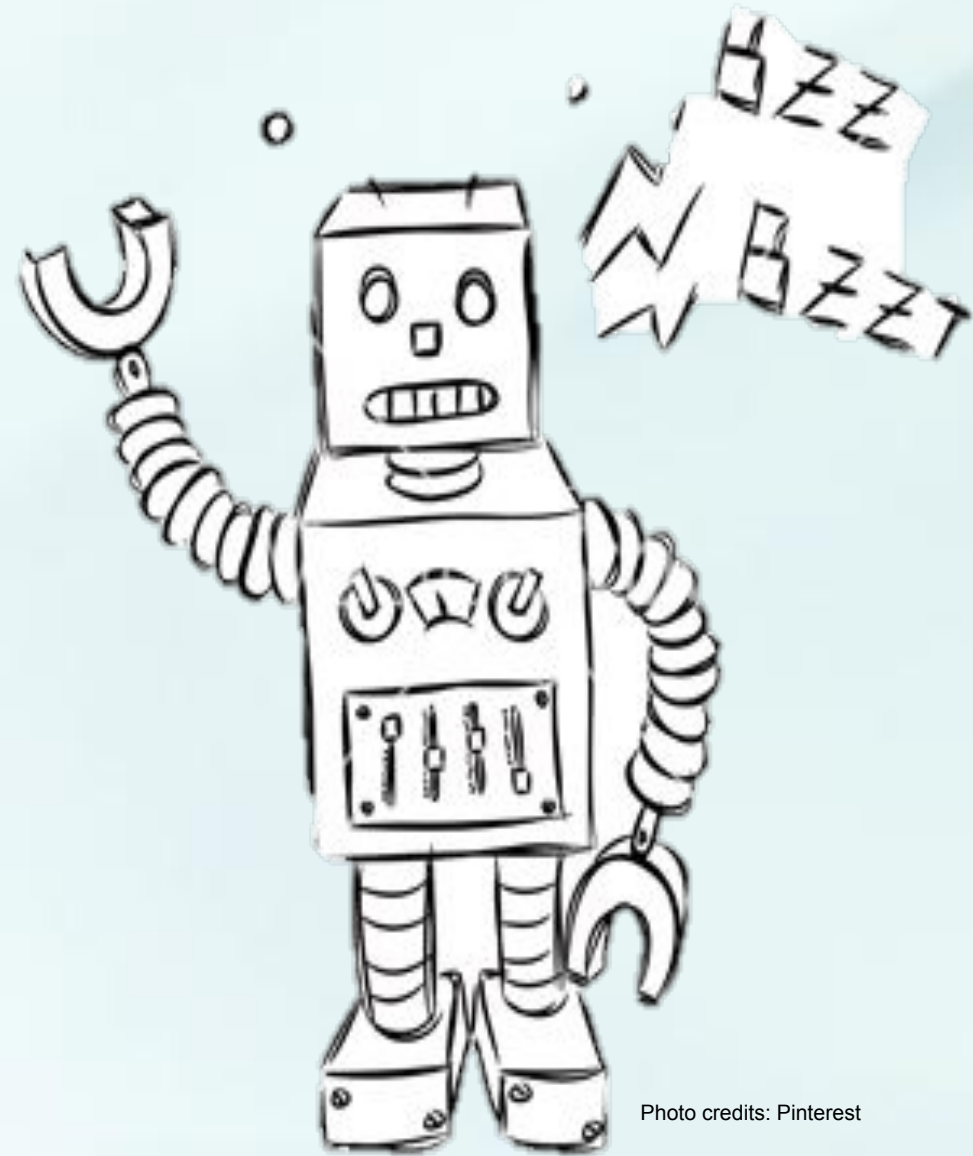


Team SPECIFICATIONS

- There can only be one **(1) robot per team** and a **maximum of three (3) team members**.
- At least one member of the team should be an IAS, IEEE member.



Robot SPECIFICATIONS



- The Robot should fit in a box of dimensions 50cmX50cmX50cm. (H-L-W).
- The Bots can either be wired or wireless. No pre-manufactured bots will be allowed.
- All of the crafted robot's exterior wiring should be stacked as a single unit. Remember that it must be properly insulated.

Judging Criteria



- **Teams will be judged based on:**

- Innovation and extent of robot's Industrial applications.
- Quality of Written Report and Presentation.
- Winners will be awarded based upon the recommendations/rankings of the CMD Engineering contest Committee.

For any query contact:

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