

Student Robotics Demonstration Contest

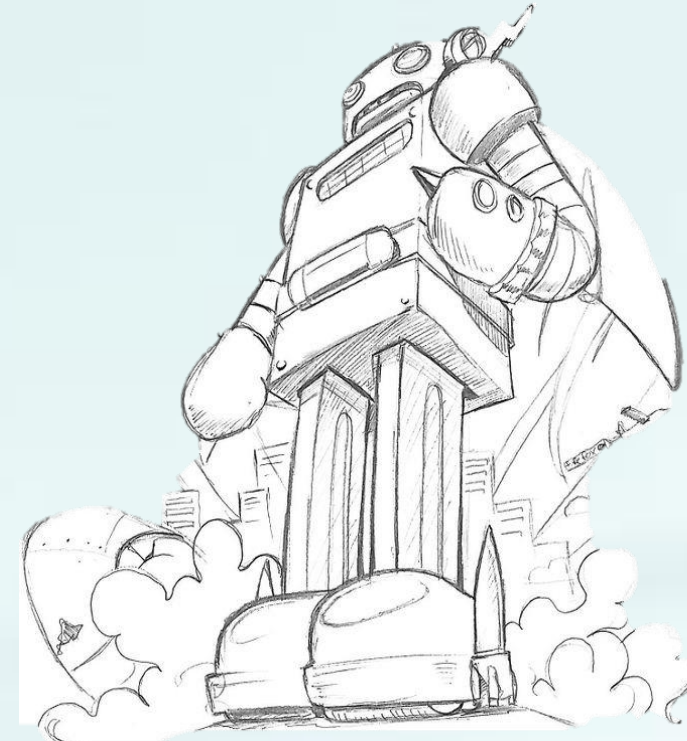
The CMD Event Organization Committee, Engineering Contest Subcommittee is pleased to announce its fourth edition of Student Robotics Demonstration Contest. This is the platform for students to demonstrate their engineering skills by solving problems through robotics.

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/MeBs1Q7GayMzKXgN8>

The Competition

- Participants need to submit a report of their robot mentioning all the construction details and photos/Videos of Robot. (Deadline is March 15, 2020)
- Send your Reports at: <https://forms.gle/MeBs1Q7GayMzKXgN8>
- 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).

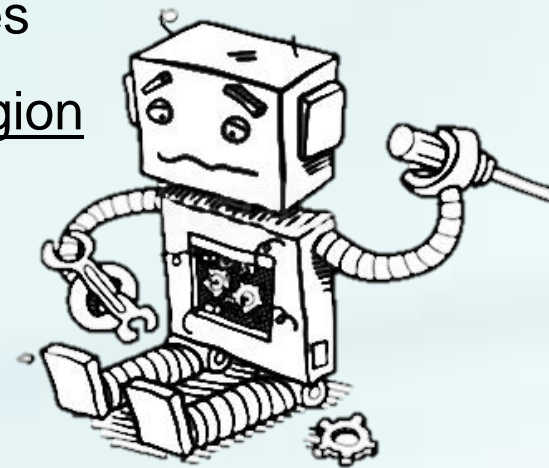


Cash prize

1st Prize: \$500

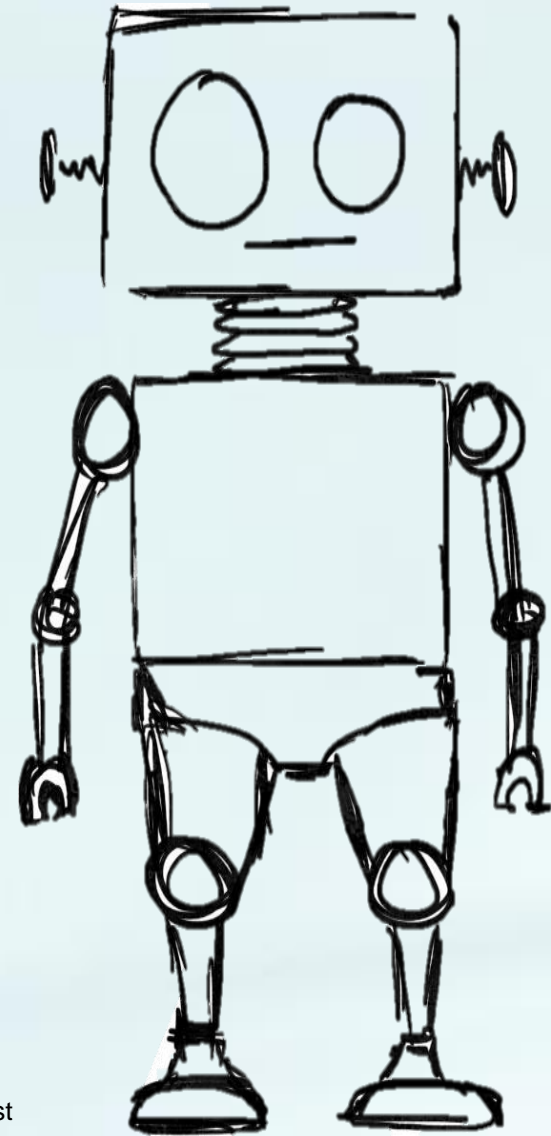
- **Up to Three (3) Selected Teams** will get chance to demonstrate their robots at the 2020 IAS Annual Meeting.
- **One (1) Member** from each selected team will be funded to attend the **2020 IAS Annual Meeting**.
- Funding: Shared Accommodation, Conference Registration and Travel Expenses (Travel Cost covered up to- USD 300 for IEEE Region 1-7 and USD 800 for Region 8-10)

NOTE: Failure to demonstrate the robot in annual meet 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).

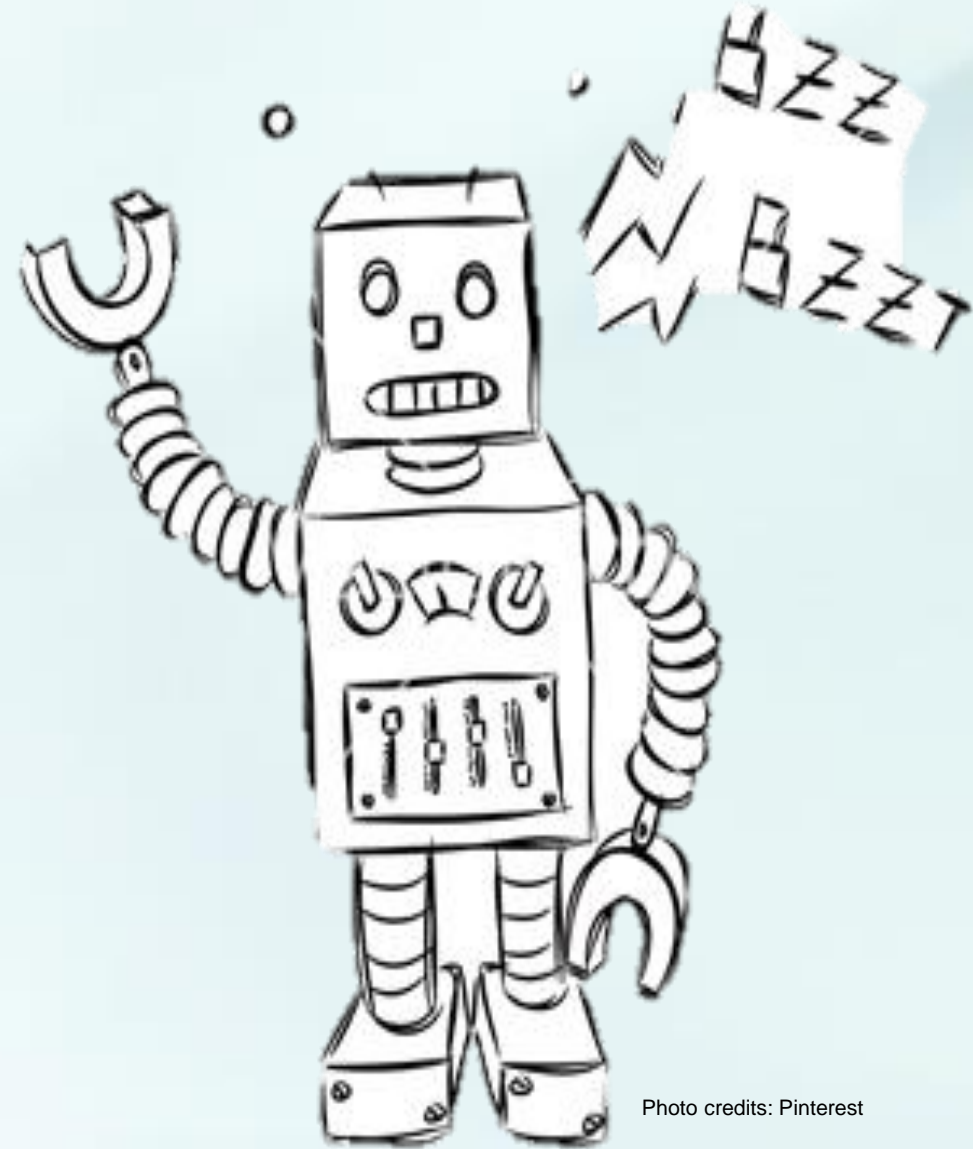


Team SPECIFICATIONS

- 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.
- **Note:** If a team is selected, one (1) member per team will be funded to attend the 2020 IAS Annual Meeting.



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.

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