



2nd Baguio City Robotics Cup Open

Game Description, Rules and Mechanics

Robotics Innovation Challenge [High School]

April 26, 2020

St. Vincent Gym, Naguillian Rd., Baguio City

Version 1.1 January 2020

1. Game Description

Teams will create a robotic model that makes it a viable solution to a pressing problem in our cities. An example of possible entries are projects that address the lack of energy, pollution, traffic, housing congestion, lack of trees and vegetation and flood. This is an open category and the problem presented needs to be clearly defined and solved by their respective robots. In this category, the problem presented needs to be clearly defined and solved by their respective robots. The robotics platform to be used is at the discretion of the team members. They may also combine robotics models such as Arduino and Lego, or other available kits in market.

2. Presentation

The completed robot will be displayed in the exhibit area for judging and public viewing. A short description of the robot and how it works will be framed next to the robot.

The brief summary (for the frame) must contain the following information and answer the questions below:

- Title of the model robot
- Team Name
- What did you build?
- Why did you build it?
- How does it work?
- How can it benefit the community?

Contestants need to provide ahead of time the information mentioned above to MGE Advance Computing Solutions. The information must be submitted on or before April 6, 2020. It must also be written in 1-3 paragraphs with 150-200 words per paragraph. This needs to fit in a short bond paper.

3. Registration

- 3.1 A team is composed of 2 to 3 members only.
- 3.2 Each team is required to have a team name and a supervising coach. The coaches do not need to be in the related STEM field.
- 3.3 The members must submit a completed registration form and the corresponding registration fee.
- 3.4 Registration, payment, and description of model robot must be completed on or before April 6, 2020.

3.5 The Liability Waiver should be completed and signed by the supervising coach. The signed copy can be emailed (scanned) to mgeacs@gmail.com.

4. Pre-Competition

Each team is required to submit a brief description of their model or prototype with their team name.

5. During the Event

5.1 Each member of the team may wear their respective school uniforms. Team members are responsible for obtaining permission from their schools to wear their school uniform.

5.2 Contestants must register at the registration table to gather their name badge at least 30 – 45 minutes before the scheduled competition time.

5.3 Contestant together with their robots will be escorted to their table by a marshall where their robots will be displayed.

5.4 A picture of the team and their creation will be taken for (social) media purposes.

6. Awarding

6.1 Judging will be conducted at 1-2:30 PM on date of the competition by several judges. The Awarding Ceremony will be at 3:30 PM.

6.2 All contestants are requested to be there to receive their awards.

6.3 A congratulatory letter will be given to the schools of the winning contestants.

6.4 The awards are as follows:

- a. Champion
- b. 1st Runner-Up
- c. 2nd Runner-Up

7. Post Competition

7.1 The team may begin removing/keeping their robots at 5:00 PM on the day of the competition.

7.2 Please do not remove it before this time.

8. Scoring

Robots will be judged by multiple judges, each grading on a point scale: 1-5 points being given in each of the below categories. Their scores will be added together.

- 8.1 *Creativity*. Does the team express inventiveness and a clear purpose? Does their model reflect the given theme well?
- 8.2 *Craftsmanship*. Is the robot well-built? Can it withstand challenges when programmed to be in a constant motion?
- 8.3 *Technology*. Does the robot display the use of technology such as appropriate use gears, sensors, motors and controllers?
- 8.4 *Innovation*. Does the robot apply better solutions to meet our current demand? Is there a unique element to the model?
- 8.5 *Overall Presentation*. Do the visual details create a good overall impression?

9. Declaring Objections

- 9.1 No objections shall be declared against the judge's decisions. There are numerous judges both on the STEM field and otherwise. Their decision is final.
- 9.2 The coach of a team can present objections to the Marshall, before the match is over, if there are any doubts in the exercising of these rules.

10. Liability

- 10.1 Participating teams are always responsible for the safety of their robots and are liable for any accident caused by their team members or their robot.
- 10.2 MGE Advance Computing Solutions and the organizing team members will never be held responsible or liable for any incidents and/or accidents caused by participating teams or their equipment.
- 10.3 MGE Advance Computing Solutions and its partners and sponsors shall not be responsible for any lost and stolen models during the competition.