

What is one to do....?

~ with spare parts

~ with a great venue large enough to require guides

~ for a public curious about all the uproar at the DECC

~ with so many teams of students eager to create....?

Why... ONE BUILDS **ANOTHER** ROBOT OF COURSE!!!

Introducing:

Junkyard Robots



@ the FIRST Robotics Lake Superior Regional

Purpose: To encourage each team to assemble an iconic robot from 100% recyclable AND on-hand materials; to be used as directional aids and a public invitation to the *FIRST* Robotics Lake Superior Regional.

This Junkyard Robot is intended to fulfill a number of roles:

- 1- instant recognition of the *FIRST* Robotics event
- 2- give teams an additional project that inspires creativity
- 3- directional aid to the venue
- 4- a draw to the event for the uninformed

The Junkyard Robot project for the *FIRST* Robotics Lake Superior Regional will give each team another venue in which to exercise creativity, problem resolution and team building. An iconic robot must be designed and built with recyclable and on-hand materials to fit specs and role/s as listed.

The Duluth Entertainment and Convention Center has many entrances as well as many venues. To readily identify this *FIRST* Robotics event and its location, each team has the opportunity to design a display-only robot to be used as a directional sign at entrances, in lobbies, corridors, hallway intersections; for directing teams, visitors, and to invite curious passers-by to the competition.

In keeping with the DECC's strong, award-winning reduce/reuse/recycle program, each Junkyard Robot will be built with all recyclable and secondhand and available materials. The DECC will be presenting its own award to the teams whose robots best demonstrate the assigned functions.



- Junkyard Robots are an optional element of this event
- each Junkyard Robot must be iconic, easily recognized as a robot by the general public.
- each must be completed using only 100% recyclable AND on-hand materials. No purchases are to be made for the completion of the Junkyard Robot. For example: duct tape may be used if it is on hand, but it may not be obtained by purchasing it specifically for this project.
- each Junkyard Robot must have an obvious directional aspect, whether an arrow, pointing arm, etc, that can be manipulated to point in the desired direction (left, right, straight ahead, etc).
- the directional aspect will be the only part that needs to be articulated. All other parts of the robot may be fixed (but they do not have to be).
- each Junkyard Robot must have one 11"x17" blank, flat area where a sign may be attached. Signage will be provided and affixed at the event.
- each robot should be within 2'x2'x5' (WxDxH)
- no robot may have parts that can be easily removed or could in any reasonable way pose a danger to others.
- the team number should be easily visible on the robot
- robots should be mobile. Some may be moved quite a distance from the staging area to their display positions.
- robots should be stable (very hard to tip). Consider making them bottom heavy.
- robots should have curb-appeal ~ be aesthetically pleasing and eye-catching. You want them to draw attention and a crowd.
- any robot considered inappropriate will be removed from the competition and have its wrists slapped and bolts snapped.
- the Junkyard Robot needs to be registered by Feb 21st.
- robots to be turned in to the designated area by 10:00 am Thursday morning March 8. They can be checked in any time the REAL robots are being checked in.
- though the robot needs to be registered in February, work can continue until check-in.
- assign a Junkyard Robot team, if possible, responsible for check-in, transport to assigned post, retrieval at the end of the event.

When designing and building your Junkyard Robot, keep these in mind:

~ the robot will be representing not only your team, but also FIRST Robotics to the public.

Presentation is key.

~ the robot will be used for advertising purposes, drawing in the uninformed public.

Is it attention getting?

~ the robot will be used for directional purposes.

Is the venue direction immediately evident?

~ the robot is made from materials on hand.

Are you being resourceful?

~ this task presents challenges on many levels.

Are you being creative?

