# RoboRace

### Markville Robotics Competition 01

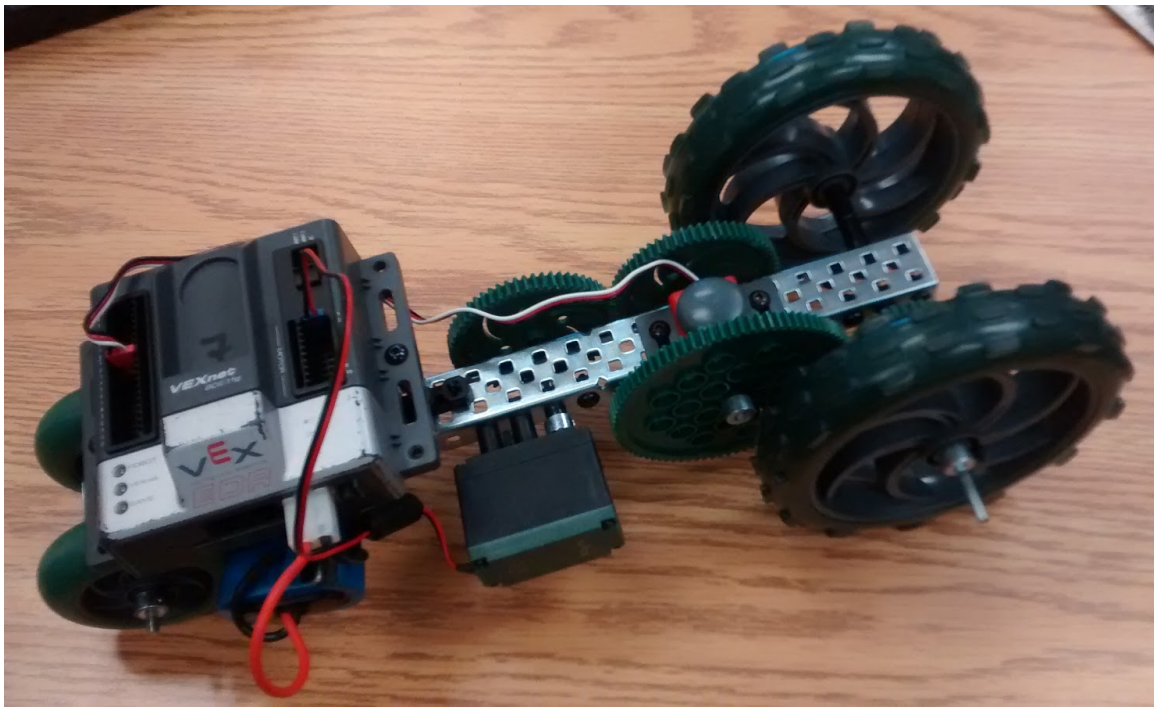


*Fig 1. - Example robot*

## Objective

The objective of this competition is to construct a robot which can travel a certain distance in the least time possible.

## Description

The field will consist of a hallway marked on both ends with **black electrical tape**, these will be the starting line and finish line. The distance between the starting line and the finish line will be **10 metres.** The robot must start completely behind the width of the starting line and must be triggered to start running with a button switch.

Two robots will compete at one time and teams may enter up to two robots over three runs.

The time taken for the robot to travel to and completely cross the finish line will be used in scoring as **A**, in seconds. Robots that do not finish within 3 minutes receive a score of 180.

Extension[1]: The robot must stop within **10 cm** after completely crossing the finish line. This distance is measured from the *part of the robot closest to the finish line* to *the end of the width of the finish line*. The value of **B** for robots that complete this objective is 0.8 and 1 for robots that do not complete this objective.

# Scoring

Points = **A** * **B**

Ranked from least to greatest

# Rules

- Maximum of 4 motors per robot
- Must be completely autonomous

[1] Only if you have time