



Moxie Board Requirements & Best Practices

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Overview

Moxie as described in the ruleset: Moxie is that little extra spice that levels the playing field. Not only can you win race points, but you can also entice and rile up the crowd to win points from them. It will be your team's job to find ways to garner audience attention and keep it over your competitors. This is the ultimate pursuit of the weird. Giant boom-box cars, Lucha masked racers, pre-race dance party and confetti cannons are all par for the course. Consider this the social engineering section of your exam. Some teams will write this off, but we at PPPRS think you should take heed: this is where real champions are crowned. Underdeveloped your car against your rival hackerspace? Easy! Gain those points back by dressing up as a chicken. Your odds to win are good if your goods are odd. Consider it Halloween in July, and you have to get more candy bars than that kid next door.



The Moxie Board as described in the ruleset: An Arduino-controlled button board, the Moxie Board, tallies the votes of members of the public during races.

The crowd is instructed to reward your spastic and odd behavior by pressing the button by your team's label. Next to each button is a 6x1.75 inch piece of space that is reserved for your team name and number. This board responds to one button press with a one second delay. This is so you don't plant yourself or your teammates out there by the board and just sit on the button all day.

Requirements

1. The board should have enough buttons for the expected number of karts coming to your event.
 - a. In 2019 this ranged from 11 - 32 karts. At some point multiple boards maybe needed, but in general 20 - 30 spots is a good size.
2. The board needs space next to each button for a 6" x 1.75" label
 - a. It is nice to have a sleeve to hold the labels to the board, and allow them to be returned at the end of the event. Example:



3. The board shall have a way to tally individual button presses
4. The board shall have a 1 second lockout after each button press
5. The board should be light enough for one person to carry for 15 - 20 mins
 - a.
6. Data should be easy to collect after a race.

Good Ideas & Recommendations

FUBAR Moxie Controls:

https://github.com/neilpf2014/moxie_board_ESP32?fbclid=IwAR2OOkGIK-qKyFfO1NtKTp0Pk8DRPkLMyBc_p_PaCQBa2hIBdwc5wwTXvz4

Orlando Moxie Board Build:

Pete's Milwaukee Moxie Board Build:

<http://rasterweb.net/raster/2017/09/27/the-moxie-board/>