

# CONNECTATHON

HEALTHCARE VS. FINANCE “THROWDOWN”  
2019

## Bonus #1: “Pimp my Bot”

### Objectives:

Your team will be modifying an **Arduino-based RC Robot** to run the obstacle course as optimally as possible. The robot already operates with limited movement, and it will be up to your team to modify it to your desired specifications to get the best time.

### Scoring:

The scoring system is time based. The team with the lowest time will be the winner.

1<sup>st</sup> place = 10 points

2<sup>nd</sup> place = 5 points

3<sup>rd</sup> place = 2 points

### Specifications and Rules:

1. Arduino scripting
2. Preprogrammed code for modifying
3. Max speed of 1 foot per second
4. Two continuous treads
5. Two analog sticks for control

### Programming and Testing

You can sign up for no more than 2 time slots, during which you can test the functionality of machine, and complete any of 3 allotted runs per team. Time slots will be queued first come first serve.

### Running the Course

Each team may run the course a total of 3 times. A score will be counted for each run, and the best of the 3 will be the final score.

When running the course, driving the robot over the border of the track will result in that run being voided. The point on the robot where it may not pass over the border is the center. The judges will have final say in calling penalties and rewards.



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