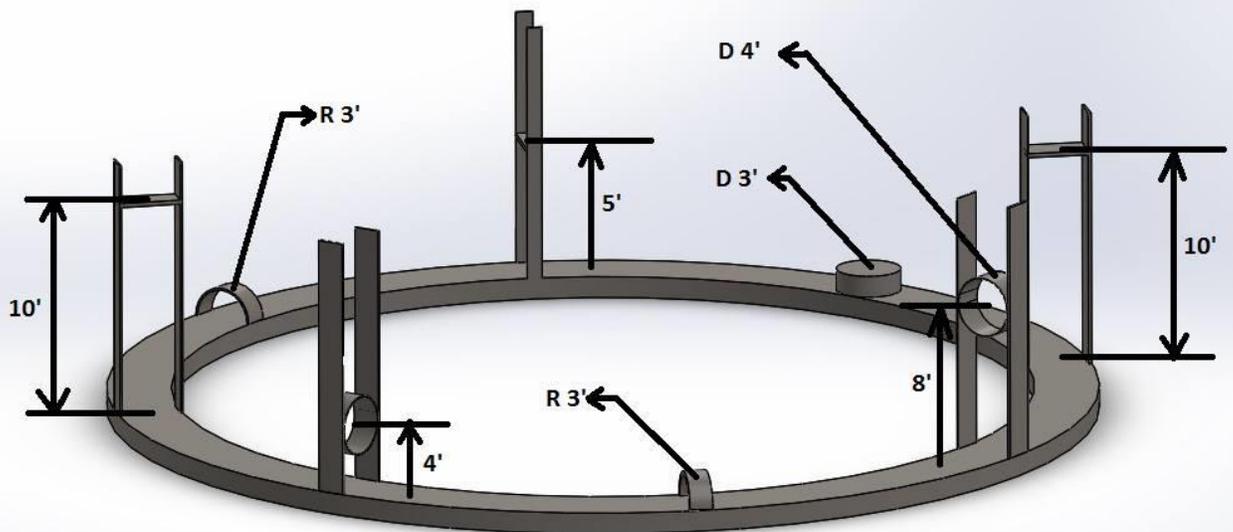# ROBOLUTION 2017

Quad-Copter Challenge

Rules:

- ✓ Any team can have maximum 6 members.
- ✓ Participants must come to the premises 1 hour before the inauguration ceremony.
- ✓ Participants must submit their quads to the organizing committee before 9 am.
- ✓ Autopilot, Sonar, Obstacle avoidance system and auto leveling mode ex: Loiter, alt hold etc is prohibited. If found, the bot will be disqualified.
- ✓ A team will be given 5 minutes to complete the track.
- ✓ Quadcopter should be operated manually.
- ✓ Pilot should stay in the zone allotted for Pilot, if goes outside 20 point deducted each time.
- ✓ Jamming device is prohibited.
- ✓ Trial run in the track is not allowed.
- ✓ If quad crosses the height of 15 feet, it will be disqualified and Pilot should land it immediately.
- ✓ Fully ready-made quad won't be allowed.
- ✓ Track will be revealed 4 weeks before the competition.
- ✓ Total round will be revealed 3 weeks before the competition.

Track Details:

1. Starting And Ending place will have a circle surface having **3 feet diameter**.
2. Quad will have to go through 2 bottom half circle of **Radius 3 feet**.
3. Quad will have to pass 2 circle of same **diameter of 4** feet; circle height will be 4 feet and 8 feet from ground surface respectively.
4. Quad will have to take the path over the bar located 5 feet and down the bar located 10 feet from the ground.
5. Max height will be 12 feet.
6. Starting direction will be decided by the authority.

Track Picture :

Points:

Event	Points for each event	Total points
Handmade chassis	25	25
Take off	30	30
Crossing horizontal half circle (2 lower)	30	60
Passing through the ring (2 rings)	20	40
Passing 3 bar	15	45
Touching ground	-10	-10
Touching wall	-15	-15
Safe Landing on the landing pad	30	30

NB:

1. The organizer's reserve the right to make changes to any of the above in the interest of fair play and sportsmanship, and to ensure that all competitors have an enjoyable competition.

2. In the event of ambiguity, the organizer's interpretation of any clauses of the rules shall prevail