

1ST ANNUAL ROBOTIC TOMATO TOSSING COMPETITION

SPONSORED BY THE [East Texas Robotics Club](#)

SATURDAY - JUNE 13, 2020 – 9:00AM – 5:00PM

Synopsis:

The Jacksonville Tomato Fest teams up with the East Texas Robotics Club to bring you the 1st Annual Robotic Tomato Tossing Competition. Competitors of all ages and locales are invited to design your best tossing robot as we square off in Downtown Jacksonville, Texas.

Entry Fee:

\$45 per bot donation to the East Texas Robotics Club (501c3 pending)

Weight Classes:

WALLE CLASS: Light Weight (50.0lbs & under)

R2 CLASS: Middle Weight (50.5lbs – 200.0lbs)

Bumblebee CLASS: Heavy Weight (200.5lbs+)

Rules:

1. All robots are to be commanded for movement and launch. NO RADIO CONTROLS.
2. Participants will make programming code available upon request.
3. No compressed air/explosive launching mechanisms (potato gun, cannon, etc). Compressed air/pneumatics can be used in mechanical elements.
4. Each participant will have 3 launches to determine best distance per class.
5. Should one launch result in creating salsa (tomato explosion), another try will be given. One salsa mulligan per team.
6. Should a launched tomato strike an overhead object such as power lines, etc, the robot will move 2ft forward and retry the launch. Unlimited retries for interference. Forward movement for retries will be taken off final distance.
7. Tomatoes will measure approximately 6.5oz in weight and 2.75"-3.0" in diameter.
8. The firing box (launch area) will be surrounded on three sides with Lexan framework to protect the audience and nearby buildings from tomato and vehicle shrapnel.
9. Teams may supply their own wireless router for communications or use ETRC-supplied devices. Electricity for comm devices and recharging will be supplied in the pits.
10. Bring supplies and tools for emergency repairs.
11. A malfunction before launch will result in the ability to take a 10-minute repair timeout while other bots continue. One repair timeout per team before loss of shot. A malfunction during launch will not be eligible once the tomato has left the launcher.
12. Teams may have a self-provided team tent for shaded waiting/repair area.

Game Play:

1. Each robot team will be given a tomato to launch for each round according to above specifications.
2. Driver will move robot by command from the pit line to the firing box (50-100ft).
3. Once in the box, the team may manually load and set/arm the launcher.
4. All team members must be back at mission control before launching the tomato.
5. See mulligans and retries above.
6. Best of 3 rounds determines the trophy winners for each class.

Questions and Clarifications:

Danny Morris – President, East Texas Robotics Club 903-721-2467 danny.morris@dcmcs.com

*Rules subject to refinement as safety issues and concerns arise.

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COMPETITION ENTRY FORM

Please fill and return to the address below or email to danny.morris@dcmcs.com by **April 15, 2020** to reserve your spot. Each team/participant may have multiple bots.

One form required for each bot entered.

Participant/Team Name: _____

Mailing Address: _____

Phone Number: _____

Email: _____

Facebook/Instagram: _____

Robot Name: (if applicable – can be updated at check-in)

Desired Robot Class (Select one – may be changed at weight-in)

WALLE CLASS: Light Weight (50.0lbs & under)

R2 CLASS: Middle Weight (50.5lbs – 200.0lbs)

Bumblebee CLASS: Heavy Weight (200.5lbs+)

Entry Fee: (Select one)

Paying by Check

Call Me for Credit/Debit Payment

Please enclose a \$45 entry fee per bot with checks made payable to:

East Texas Robotics Club

102 E Commerce St.

Jacksonville, Texas 75766

903-721-2467

danny.morris@dcmcs.com

If a Team, Please list team members names below for promotional purposes: