BAE Systems Mini-Bot Challenge Frantic Fetch Awards

Thanks to everyone for participating in Frantic Fetch.

We appreciate all the teams who took the time to develop solutions to the challenge. Thank you!

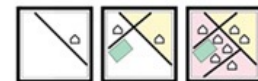# Frantic Fetch Challenge #3
Participating Teams

32 Teams
11 CT
9 MA
8 NH
4 ME
0 VT
0 RI

58 The Riot Crew, South Portland, ME
88 TJ^2, Bridgewater, MA
131 CHAOS, Manchester, NH
133 BERT, Standish, ME
155 The Technonuts, Berlin, CT
172 Northern Force , Gorham-Falmouth ME
178 The 2nd Law Enforcers, Farmington, CT
195 CyberKnights, Southington, CT
839 Rosie Robotics, Agawam, MA
1100 T-Hawks, Northborough MA
1247 Blood, Sweat, and Gears, North Sutton, NH
1729 Team Inconceivable!, Peterborough, NH
1831 Screaming Eagles, Gilford, NH
1991 The Dragons, Hartford, CT
2168 Aluminum Falcons, Groton, CT
2262 Robo-Panthers, Holliston, MA
2342 Team Phoenix, Nashua, NH

2712 Power Surge 4-H Robotics, Woodbury, CT
2877 LigerBots, Newton, MA
3182 Athena's Warriors, Hartford, CT
3461 Operation PEACCE Robotics, Bristol, CT
3654 Tech Tigers, Middletown CT
4546 Shockwave, Dover, NH
4905 Andromeda One, Ayer, MA
4906 The Collective, Waterville, ME
5563 Phalanx, Lynn, MA
5813 Morpheus, Concord, NH
5846 Southcoast Corsairs, North Dartmouth, MA
6731 Record Robotics, Belmont, MA
6895 Mechanical Madness 4H, Walpole, NH
8085 Milford MOJO, Milford, CT
8167 Cognatives, Durham, CT

Judge's Award

- The Judge's award recognizes a team whose solution to the Challenge was unique or otherwise noteworthy. This team's solution may not be the fastest, or have the most elegant code, but the judges felt that it solved the problem in a visibly creative way.

- This team's intake made us shimmy and shake. Reminiscent of a Jai alai cesta on its side, it scooped golf balls with a quick twist and turn. For its unique solution to golf ball collection, the judges award the Frantic Fronton award to team 1247 Blood, Sweat, and Gears from North Sutton, NH

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- This team took this year's FIRST Theme "Game Changers" to the extreme. They created a video detailing another game, strangely similar to Frantic Fetch, called "The Newtonian Nexus," which we would love to play. Congratulations to Team 178 The 2nd Law Enforcers from Farmington, CT

Team Spirit Award

- The Team Spirit award recognizes a team whose enthusiasm for the challenge, for their sponsors and for their team is evident in their video submission or in their robot decoration.

- Sometimes, it takes a village to motivate a robot. Other times, it takes a cheering squad. This team shows it has the eye, and the pompoms, of the tiger. Congratulations to team 3654 Tech Tigers from Middletown CT!

Teleoperated Performance

- Third Place
  0.45 Seconds
  Team 155 The Technonuts
  Berlin, CT

- Second Place
  -0.9 Seconds
  Team 195 CyberKnights
  Southington, CT

- First Place
  -1.25 Seconds
  Team 4905 Andromeda One
  Ayer, MA

Autonomous Performance

- Third Place

    3.08 Seconds
    Team 5846 Southcoast Corsairs
    North Dartmouth, MA

- Second Place

    2.62 Seconds
    Team 195 CyberKnights
    Southington, CT

- First Place

    1.35 Seconds
    Team 4905 Andromeda One
    Ayer, MA

Autonomous Performance
Line Followers

- Third Place

  118.63 Seconds
  Team 1247 Blood, Sweat & Gears
  North Sutton, NH

- Second Place

  25.77 Seconds
  Team 1100 T-Hawks
  Northborough MA

- First Place

  25.73 Seconds
  Team 1991 The Dragons
  Hartford, CT

Most Innovative Solution (3rd place)

- The Most Innovative Solution award recognizes out of the box thinking in coding and hardware design.

- This team advanced their engineering skills by completing a vision system to determine robot location with aruco markers. While they weren't able to fully integrate their complex vision application with their robot code before the deadline, the judges felt their technical approach was very innovative and laid the groundwork for future competitive excellence.

- The third place Most Innovative Solution award goes to team 3461, Operation PEACCE Robotics, from Bristol, Connecticut!

Most Innovative Solution (2ⁿᵈ place)

- This team demonstrated how to write maintainable and readable code. By creating an intake subsystem to control their mechanism, they were able to leverage many of the awesome tools included in the command framework, like parallel and sequential commands, to express their robot's behavior.

- Their code was anything but Chaotic. The second place Most Innovative Solution award goes to team 131, Chaos, from Manchester, New Hampshire!

Most Innovative Solution (winner)

- This team successfully used vision markers to keep track of their position each time they pounced onto a ball. They used all of the tools in their software toolbox: building command sequences, visualizing the robot position on the dashboard, and communicating not only vision but also time information over the network to determine what, where, and when. This team is at the top of the animal kingdom.

- The first place Most Innovative Solution award goes to team 2877, LigerBots from Newton, Massachusetts!

Shortest Combined Time

- Third Place

  6.59 Seconds

  Team 5846 Southcoast Corsairs

  North Dartmouth, MA

- Second Place

  1.72 Seconds

  Team 195 CyberKnights

  Southington, CT

- First Place

  0.10 Seconds

  Team 4905 Andromeda One

  Ayer, MA

Thank you all!

- This has been a lot of work but also a lot of fun!

- We will have one more challenge that takes the Mini-bot Challenge to a whole new level!

- If you didn't participate in the prior challenges, you can still participate in the rest of the challenges!

Thank you all!

- Thank you to the teams, to the mentors, to our judges from WPI and BAE Systems, to the amazing team at wpilb.org, to our print partners at Historic Mapworks and Turnone Graphics, to our sponsors, BAE Systems, Eversource and Titleist, and to New England FIRST for making this challenge possible.

- Please tune in next for the reveal of our next challenge: Alliance Antics!