



Event Summary

4 March 2025



PRESENTED BY **HMAS**
Gene Haas Foundation



EVENT RECAP - FIM MILFORD

Red Thunder Robotics took the field February 28 and March 1 in our first competition of the season. In what was projected to be a top 5 scoring event in the state of Michigan, our robot, **Black Pearl**, did not disappoint!

Our robot and its drive team went 10-2 in fierce match play and finished the qualification rounds ranked 4th out of 39 teams. The event quickly moved to playoff alliance selection, and 7166 was invited to join the 2nd seed alliance captain, 1023 Bedford Express, as its first pick. Teams 1023 and 7166 then invited 7660 The Byting Irish to round out its alliance.

Our alliance won its first 2 playoff matches then faced off against the #1 seed, resulting in a loss, pushing our alliance into the lower bracket of the double elimination tournament. We won the next match, advancing us to the finals to again face the #1 alliance.

While we won the first match in a best of 3, ultimately our alliance came in second. Regardless, this was a milestone for 7166 as we have never finished an event higher than 4th place overall!

2025 Upcoming Events

FIM Mason Event

March 22-23

1001 S. Barnes, Mason, MI

Robotics Read Aloud

March 14

Laingsburg ECEC

SEDP Manufacturer's Mixer

March 25

Laingsburg High School

WINNER		Alliance 2	Alliance 7
156	7166	106	7056
9	LEAVE	9	
83	CORAL	63	
48	ALGAE	28	
14	BARGE	6	
2	PENALTY	0	

Match Results Powered By **Rockwell Automation**



 **Click the icon for a video recap of our Milford Event!**

7166 EARNS THE TEAM SUSTAINABILITY AWARD

Not only does our team have students who design, build, code, and drive robots, but we have a vibrant non-technical side too. One of our non-technical departments is our Awards team. They present to judges with the intention to impress them with our outreach, succession planning, community service, and mentorship of other *FIRST* teams. This is done both as a prepared speech for our Impact presentation as well as impromptu Q&A in the pits.

7166 earned the Team Sustainability Award at FIM Milford, an award which is presented to a team “which has developed sustainable practices to have a positive environmental impact and achieve long-term continuity” (*FIRST* website, www.firstinspires.org).



WHAT'S NEXT? MASON EVENT PLANNING

Software:

- Tune autonomous code to score 3 pieces of coral (4" PVC pipe) in 15 seconds
- Calibrate Limelight vision system and develop localization using AprilTags on the field
- Dial in the coral scoring gantry system to create a more automated driver experience

Mechanical:

- Lighten **Black Pearl** to make the elevator more efficient using a combination of carbon fiber and pocketing techniques

Drive Team:

- Continued practice running cycles to increase maneuverability and decrease cycle times

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