



# Iowa City Robotics

## 2023 Season Recap

In Mid February we went to the Corn Dog Classic, a scrimmage held by team 525: SwartDogs.



Here we held our driver tryouts so we could cement our driving team so they could practice before our first regional.

## Northern Lights Regional

In early March, we traveled to Duluth, Minnesota for the Northern Lights Regional. The Duluth Entertainment Convention Center hosted the event, along with another regional competition: the Lake Superior Regional. 59 teams from Minnesota, Iowa, and Wisconsin competed at the Northern Lights

Regional while 60 teams competed in the Lake Superior Regional.

We left the morning of wednesday March 1, to drive to Duluth. On that first day we set up our pit and checked into the hotel. On Thursday we started off the day by getting our robot ready for inspections, passing inspections, and going to safety/drivers meetings. We spent the remainder of the day arranging ourselves for our upcoming presentation for the Impact Award, refining our programs, and giving our drivers practice through practice matches against other teams. Qualification matches began Friday and ran through Saturday morning. On Friday night we had a



[iowacityrobotics.org](http://iowacityrobotics.org)



[info@iowacityrobotics.org](mailto:info@iowacityrobotics.org)

scouting meeting to get prepared for finals the next day. We had a pretty good qualification record of 9-3-0, which put us in sixth place before alliance selections.

During alliance selections we moved up to fifth place alliance caption picking teams 5586 and 4230. In our first match of finals we won 108-105, against alliance four. We lost our second match 89-128 against alliance one, which moved us to the lower bracket. We had one finals match left that we ended up losing 109-136 against alliance 7. We ended up finishing tied for sixth place overall.

## Iowa Regional

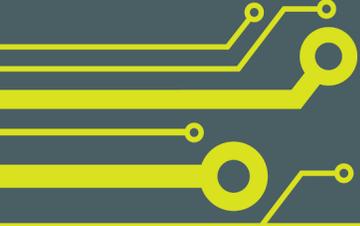
The Iowa Regional took place between March 22 and March 25, 2023. We left for the UNI-Dome on the 22nd to set up our pit at the competition and to check into our hotel. On Thursday we quickly got our robot inspected and spent the remainder of the day playing practice matches to be ready for the qualifications. We also practiced and refined our Impact Award Presentation.



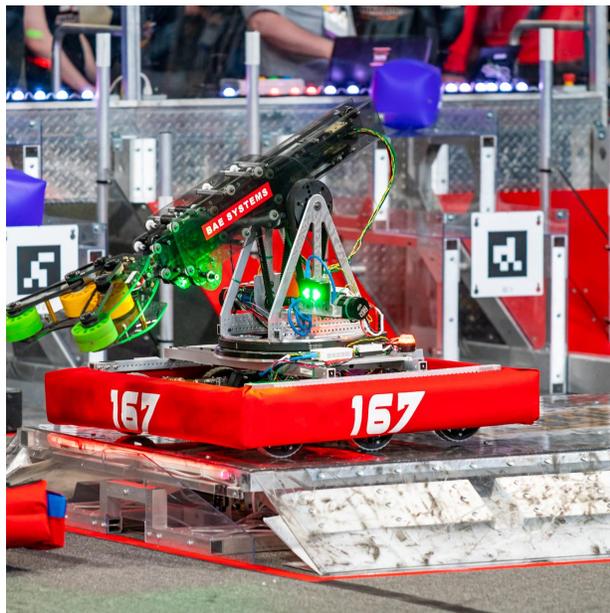
Between the Northern Lights Regional, and the Iowa Regional, we had decided to change our robots claw design. Instead of using a pneumatic piston like before, we instead changed it so that it worked with wheels to suck in and shoot out the game objects. Additionally, we had spent the time refining our arms movement, testing and recording angles and positions so we could create presets to more quickly get in position to score game pieces in the match. We also kept refining and improving our code so that we could balance on the charge station during the first 15 second autonomous period at the beginning of each match. During the qualifications we had a record of 7-5-0, putting us at rank 12 for alliance selection.

During alliance selection, we were picked by the 6th alliance by team 5125 and joined with 4096. Our alliance was then eliminated in the semi final rounds. After the competition was over, we were awarded the Autonomous Award presented by Ford.





# More Photos From the Season



[iowacityrobotics.org](http://iowacityrobotics.org)



[info@iowacityrobotics.org](mailto:info@iowacityrobotics.org)

## Gold & Silver Sponsors

**BAE SYSTEMS**



**ACT**<sup>®</sup>



**Iowa Fluid Power**  
Motion Control Solutions



## Bronze Sponsors



[iowacityrobotics.org](http://iowacityrobotics.org)



[info@iowacityrobotics.org](mailto:info@iowacityrobotics.org)