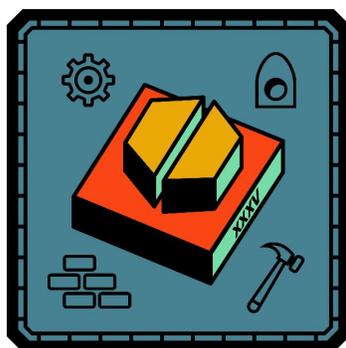


## FRC Game Summary- REBUILT

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# REBUILT

PRESENTED BY   
Gene Haas Foundation

# FIRST<sup>®</sup> ROBOTICS COMPETITION

In this year's REBUILT Competition, two competing alliances of three robots score fuel, cross obstacles, and climb the tower. During the first 20 seconds of the match, robots are autonomous. Without guidance from their drivers, robots score fuel into their hub. What's fuel? 6 inch foam balls that each weigh 1/2 lb. Besides scoring fuel, robots may also climb the tower for points.

During the remaining 2 minutes and 20 seconds, drivers control their robots. Alliance hubs will alternate between active and inactive, shifting gameplay between both sides of the field. Drivers may attempt to score fuel into their hub while it is active and may play defense or collect more fuel while their hub is inactive. As time runs out, both hubs become active, allowing all robots to score. Robots can climb to the top of the tower to score extra points, claim match bonuses, and increase their rankings. The alliance that earns the most points will win the game!

### Contact Info / Interesting Websites

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Dan Niemitalo  
Head Coach

Contact the Organization  
[lmhsrobotics@gmail.com](mailto:lmhsrobotics@gmail.com)

Linn-Mar Robotics Website  
[lmrobotics.org](http://lmrobotics.org)

Linn-Mar District Website  
<https://www.linnmar.k12.ia.us/>

FIRST Website  
<https://firstinspires.org/>



## 967 Iron Lions

It's the beginning of a new year and the Iron Lions are preparing for the Rebuilt season. Following kickoff on January 10th, the team spent two weeks designing and prototyping potential robot designs. With the Iowa and Minnesota Bluff Country Regionals approaching in March, each subteam is mobilized and busy at work to ensure a successful and fulfilling season.

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**BAE SYSTEMS**



## 967 Iron Lions (Continued)

### *CAD:*

The CAD team has started working on our full 2026 robot assembly. The team has developed mechanisms to intake and score the fuel game pieces, as well as rotate the shooter to multiple positions to speed up the rate of fuel being put into the goal zone.

### *Software:*

The Software team has been coding the different subsystems of the robot, including the shooter, in preparation to test the motors and function of the manipulators. Currently, the team is also focused on implementing and testing vision software to enable usage of cameras on the robot. Cameras on the old L1 robot drive base are being used to test vision code.

### *Outreach/Awards:*

The Impact/Awards team has entered the year with strong progress on the essays for FIRST awards. The team has also officially started an [Open Alliance thread on Chief Delphi](#), allowing us to share our progress and ideas with other FRC teams.



## 10107 In Theory

Our team just finished our district competition. We got the second place Think Award for our documentation of season accomplishments. We also became the sixth alliance captain and made a strong run in the playoff matches. We made it on to state and are now preparing for the next competition!



## 4150 Dark Matter

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Linn-Mar Booster Club

This past month, Dark Matter has been working hard to prepare for League Champs. In the first meetings of the month, we finally finished our late-season robot. This gave us a lot more functionality than was present in our earlier starter bot. In the couple weeks before the competition, we perfected the code for our new robot, and added to our Engineering Notebook, which is presented to judges at League Champs, and qualifies the team for certain awards. At the championship, our robot worked as intended, but we faced some reliability issues. This unfortunately held us back from reaching finals at the competition. On the other hand, our presentation portion of League Champs went amazing. Our portfolio was extremely polished, and represented our team spirit well. One of Dark Matter's main goals this year was to have strong outreach initiatives, and this was represented in our portfolio. In fact, this is strong enough that Dark Matter took home the first place Connection Award. This award is given to a team that reaches out into the community and encourages STEM principles. This year, we did this through area STEM showcase nights, summer camps, and a food drive for the benefit of our school food pantry. Although we are not advancing to state, we are extremely honored that we won this award, and we plan to increase our outreach efforts in the coming year.

Some things our team is planning on doing in the offseason:

- Increasing the design skills of individuals on the team
- Starting a team engineering project such as a Rubik's Cube solver
- Get an early start on acquiring sponsorships for the program



## Sponsor Spotlight

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## Senior Spotlight

Kian Carter is a senior from 967 Iron Lions who's been on the team since his freshman year. He significantly contributes to the teams CAD and 3d-printed components. We are sad to see him off after this season, but we hope he finds success in his future ventures.



## Pet Highlights

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This week, the editor would like to highlight the capybaras she met at Caldwell Zoo in Tyler, Texas over break. Caldwell Zoo has two capybaras, Ruby and Coco. There was only one capybara out when she went, so the editor isn't entirely sure which one it was, but she did learn a lot of interesting facts about capybaras! They are the largest rodent, and are known for their incredibly chill demeanor. The capybara this editor met was quite friendly, and enjoyed relaxing in the shade by the water.

