

## FRC Competition Summary- Bluff Country Regional

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Pictured from left to right-  
Back Row: Grace, Maggie, Tucker, Sreenav, Nate, Evan, Nemo, Alex, Caleb, Kian  
Front Row: Sophia, Hira, Quinn, Levi, Tim

### 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/>

Linn Mar Robotics Team 967, The Iron Lions, competed in the Minnesota Bluffs Regional from March 4-7 with 40 other robotics teams. The team made it to the playoffs and demonstrated their technical and business skills through their robot and judging. Go Iron Lions!

# FRC Competition Summary- Iowa Regional

## LMR Mission

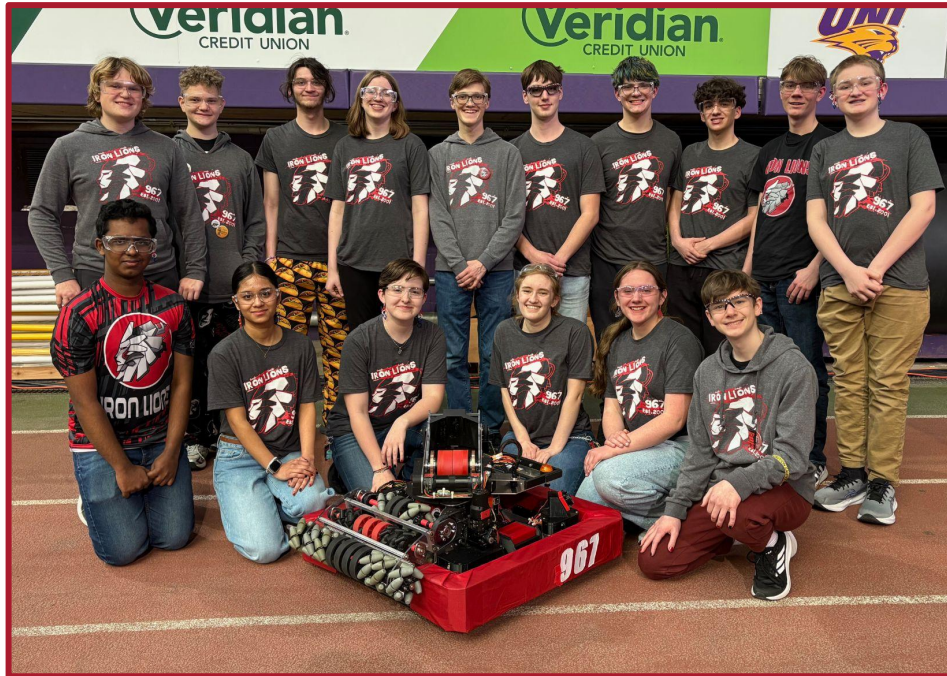
Empowering students to become technology leaders through experiential learning and mentorship.

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Pictured from left to right-  
Back Row: Alex, Erik, Tucker, Grace, Caleb, Kian, Wes, Dylan, Evan, Tim  
Front Row: Sreenav, Hira, Sophia, Quinn, Maggie, Levi

Linn-Mar Robotics Team 967, the Iron Lions, competed with 52 other teams at the Iowa Regional in Cedar Falls over the weekend. Their play earned them a spot as the 7th seed alliance captain for the playoffs. The Iron Lions won the Industrial Design Award for their robot that balances form, function, and aesthetics on and off the field! In addition, Hira Thapa and Margaret Mitzel represented Linn-Mar as FIRST Leadership Award Semi-Finalists at the competition! Congratulations on an amazing season, Iron Lions!

# 967 Iron Lions

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Linn-Mar Booster Club

Throughout February and March, it was all hands on deck to have a functional and effective robot in time for our first competition, then improve it so it was ready for the second. Now that the season is over, we are putting together plans for our summer camps in July.



## From Spaghetti to Sustainability: Recycling 3D Printer Scrap

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We've all been there. You're working on a print and something goes wrong. Suddenly the project has turned into a pile of spaghetti that has slipped the surly bonds of Earth. Print failures happen everywhere—from small home printers to hyper-accurate dental printers. It's just part of life.

However it shows up, this kind of scrap adds up quickly. In fact, some estimates suggest that up to 33% of all 3D printing ends up as waste of some kind (1). Figuring out what to do with it at scale can be a challenge for a program as active as Linn-Mar Robotics.

Recently, though, we got a little closer to a solution. Printerior (2), a company in the greater St. Louis area, has a program that accepts 3D printing scrap and gives it a new life as filament all over again.

Getting it there is fairly straightforward. A quick trip down the Avenue of the Saints will take you right to their facility, where the process is as simple as labeling the type of filament and dropping it off. They even offer a rewards program for repeat drop-offs.

Of course, the drive itself is about four and a half hours, so coordinating a trip takes a little planning. Still, finding someone headed that way to drop material into our account beats the alternative of mailing nearly 50 pounds of scrap. It's a bit of give and take, and likely something we'll revisit every few months as more prints pile up.

Still, it's a step toward a better cycle—where yesterday's failed prints can become tomorrow's filament.

(1) <https://www.filamentive.com/recycle-pla-3d-printing-waste-uk-recycling-guide/>

(2) <https://printeriodesigns.com/pages/recycling>



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**Empowering students to become technology leaders through experiential learning and mentorship.**

## Senior Spotlight

Caleb Ryon is a senior on 967 Iron Lions. He has been with the team since his freshman year. Caleb is the drive coach and lead programmer for 967, and will go to Iowa State University for Computer Engineering after he graduates.



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## Sponsor Spotlight



MidAmerican Energy Company is headquartered in Des Moines, Iowa. They aim to safely meet the energy needs of more than 1.6 million customers in Iowa, Illinois, Nebraska and South Dakota. MidAmerican is a subsidiary of Berkshire Hathaway Energy, and has more than 3,400 dedicated employees serving customers every day across service territory.

## Pet Highlights

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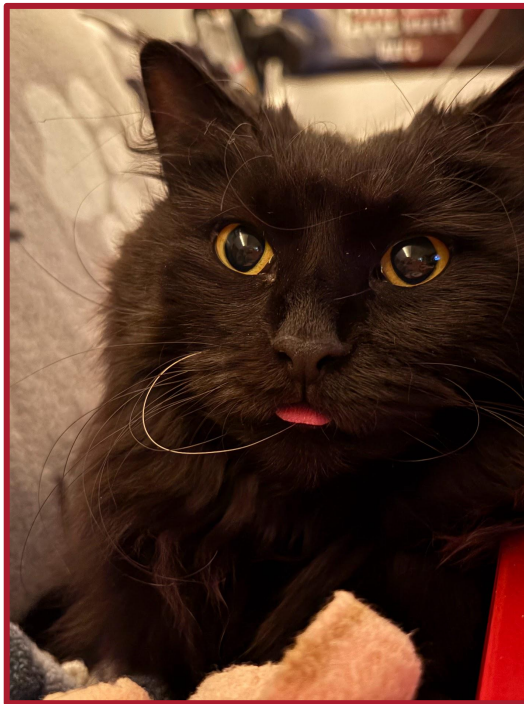
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This month, we'd like to highlight Beth's cats: Tifa(left) and Cloud(right)



Tifa is the chaos queen who loves snuggles and being pet, and Cloud reportedly has “no brains, head empty”