



# Crevo Chronicle

## January

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## Greetings

On behalf of everyone at Crevolution Robotics we would like to thank you, our sponsors, for your donations. Without you we would not be able to achieve our goals, and the season would not be able to run smoothly. We will be sending out these bi-weekly newsletters in order to keep you informed on what we are doing and our progress. You will be able to see how far your support will get us throughout the build season. There are also dates of our upcoming competitions that we would love you to attend, on page 3.

## Kickoff to Build Season

FRC kickoff marks the beginning of the build season! Early on January 3rd the very enthusiastic and eager students and mentors of Crevolution Robotics got together to watch the kickoff video and learn the rules of the new game for 2015. We received a kit of parts that will be used for the robot throughout the build season. We began strategizing and prototyping in order to find out how we will achieve our goal.



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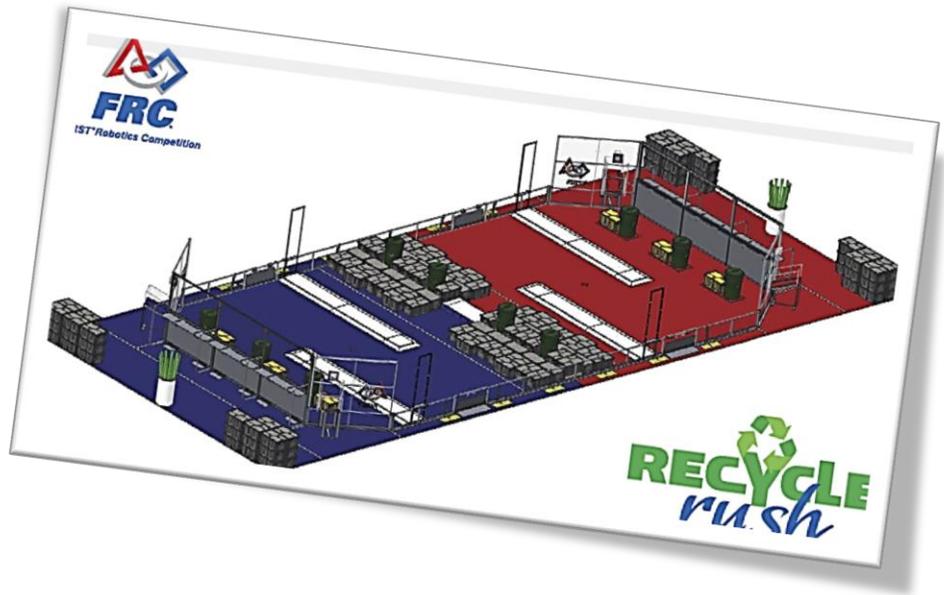
## The Game

"Recycle Rush is a recycling-themed game designed for the FIRST Robotics Competition (FRC). It is played by two Alliances of three teams each. Alliances compete simultaneously to score points by stacking Totes on Scoring Platforms, capping those stacks with Recycling Containers, and properly disposing of Litter, represented by pool noodles, in designated locations."

-FIRST Robotics

Link to the video of the game:

[https://www.youtube.com/watch?v=hTyCIYZQ\\_1s](https://www.youtube.com/watch?v=hTyCIYZQ_1s)



We first went over the game manuals and discussed how we can get points and how we can lose points. By going over what gives us the most points we began to strategize and prioritize what we want to build for. The most important factor of this game will be efficiency- building a robot that will be able to stack totes and containers both accurately and quickly.

### RECYCLE RUSH STRUGGLES

"It's not a bin, it's a container!" Crevolution struggled to get the name right for the recycling containers and it is safe to say we all had our moments of calling it by the wrong name. By the end of the build season we won't even blink when we say "container".

## Prototyping

Although we all had many ideas running through our minds about designs for the robot, we had to take some steps before getting there. As a team we decided on what our priorities would be for Recycle Rush. After deciding what would be needed on our robot Crevolution separated into small groups to white-board out possible designs, including ones for picking up containers, stacking totes, and rotating containers that are on their side. Then on Sunday we made our ideas real by building the prototypes. Some worked very well, and others were not as successful. Prototyping was very helpful for having an idea of what would be possible to have on the robot.



## COMPETITION DATES

**March 5-7**

Waterford Mott High  
School

**March 26-28**

Centerline High School

**April 8-11**

Michigan District  
Championship at DeltaPlex  
Arena- Grand Rapids

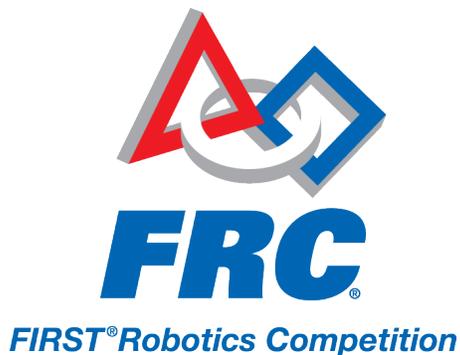
**April 22-25**

Championship- St. Louis

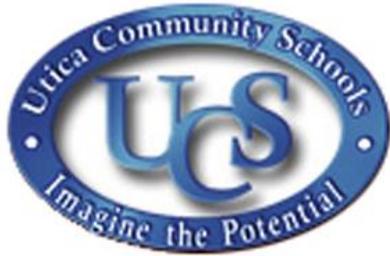
## New Computers!

“For a couple of years, Crevolution has had to deal with old XP laptops that seem to have come from the pits of obsolete technology. However, this year was different. With frugal use of our sponsorship money and donated monitors, our designers purchased computer components and assembled state of the art workstations that load SolidWorks in SECONDS. Sporting 8GB of Ram mixed with high end AMD 3.5GHz processors and topped off with a 970 GeForce graphics card, these computers equal the seismic power of 10 whales having a seizure in the ocean.”

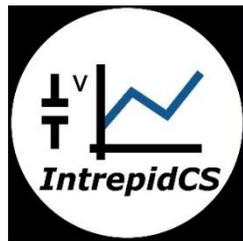
- Martin Smoger



# Thank You Partners!



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