



# The R.O.B.O.T.I.C.S. Review

## Team 107 January Newsletter

### Sponsor Highlights

### The 2023 Game is Here - Charged Up!



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The new game for the 2023 season is called Charged Up! The game challenge is centered around electricity. To score, you need to create a power link with the game pieces. The game pieces consist of rubber traffic cones and inflated cubes. One of the unique aspects about this game is that there is a charging station. On the charging station, we need to balance 3 different robots on it. This is challenging because the station moves like a teeter totter. Our team is very excited to rise up to the challenge and compete.



Brainstorming ideas for the 2023 Challenge, Charged Up!

### Designing for Charged Up!



What we have focused on the most in our first two weeks is how we can pick up and move game pieces. One of the challenges is that we want to be able to pick up the rubbery cone as well as the inflatable cube with the same mechanism. We have been designing and prototyping and came up with what we are calling "The Flipper." The Flipper is used to flip up or pick up the game pieces to get them into the robot. *The photo to the right shows our first round of prototypes being built for The Flipper!*

### Feeding America Volunteering

On Saturday, Jan 28 the Robotics Team will be making a trip to Third CRC in Zeeland to partner with Feeding America. Feeding America is an organization that distributes groceries to families in need. On average we hand out food to 70 families per event. This is a great and fun way for us to reach out to the community as a Team.





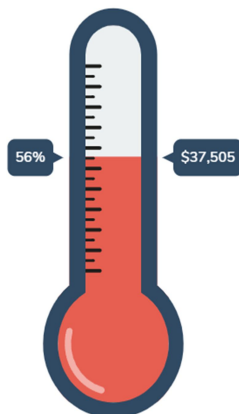
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### Sponsorship Opportunities

This year, our Team's budget is \$67,750. This season will be a very expensive year since we will be going back to Houston, TX for the World Championship. If anyone is interested in sponsoring our team, you can contact our Team Coach, Michelle, at [bonzi2@sbcglobal.net](mailto:bonzi2@sbcglobal.net) for more information or to learn more about joining the team as a sponsor, visit our website at <https://team107robotics.weebly.com/>.

GOAL: \$67,505



### Current Funds Raised

Currently, the Team has raised \$37,505 for the new season! That's 56% of our overall budget! Since our last newsletter, we received almost \$12,000 in sponsor donations! Thank you! At this phase in our fundraising, we have fundraised enough money to travel to the World Championship in Texas! We will continue fundraising for our three additional events and robot parts.

### Student Spotlight

Meet sophomore, Tyler! This is Tyler's second season on Team 107. Prior to that, Tyler participated in our Middle School robotics program for 3 years.

For the Team, Tyler helps build and wire up the robot. He was even on our Drive Team last year as our Human Player. Along with helping with robot related tasks, he also volunteers with the Team at Feeding America, Community Action and our Rookie Build Camp. Thank you for the great work!



### Mentor Mention

Meet mentor Jimmie! Jimmie has been with the Team since 1997 and is still going strong today! He is our lead CAD designer and is extremely talented and is



great at teaching us. Jimmie lays the foundation for our robot and we really couldn't do what we do without him. What he and other students design in CAD can then get cut out on a machine, like the CNC or Mill, so we can prototype components of our robot. Jimmie is a very creative thinker and always challenges us to come up with unique ideas. Thank you for all your hard work over the years, Jimmie!

### Save the Date! Come see the Robot in Action!

Mark your calendars to come join us at our first competition, the West Michigan District Event! The event will be at Grand Valley State University in the fieldhouse. The dates for this event are March 24th and 25th. You can find all the event details on the event website: <https://westmifirst.org/district-event/>

