



XTREME HEAT



Newsletter 5



**Sponsor Spotlight**



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*Thank you for all your generous support of the FIRST Robotics Team 223!*

If you or somebody you know is interested in sponsoring the team, please feel free to contact us!



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## BUILD TEAM

### CURRENT PROJECTS:

- PRACTICE ROBOT ASSEMBLY

GOALS: TO BE ABLE TO COMPLETE FABRICATION AND ASSEMBLY OF THE PRACTICE ROBOT

## DESIGN TEAM

### CURRENT PROJECTS:

- TEAM BUTTONS
- REVEAL VIDEO
- SPONSER VIDEO

GOALS: WORK ON BOTH VIDEOS, AND FINISH BUTTONS



MAKE  
— it —  
HAPPEN



MAKE  
— it —  
HAPPEN



## BUSINESS TEAM

### CURRENT PROJECTS:

- COMPLETION OF ENVIRONMENT POWERPOINT PRESENTATION
- FINALIZING BUSINESS PLAN
- WOODIE FLOWERS AWARD SUBMISSION

GOALS: SUBMIT AWARDS

## PROGRAMMING TEAM

### CURRENT PROJECTS:

- TRACKING GOAL WITH JETSON TK 1 DEVELOPMENT BOARD
- XBOX KINECT
- ROBOT TRACKING SYSTEM
- SENSOR

GOALS: FINISH PROJECTS

PLANS: ACHIEVE GOALS IN TIMELY

## Parent Updates:



Apparel orders have been submitted. If you have not handed in an order form, there may be extra inventory once the orders arrive.

**“I have not failed. I’ve successfully discovered 10,000 things that won’t work.”**

**- Thomas Edison**

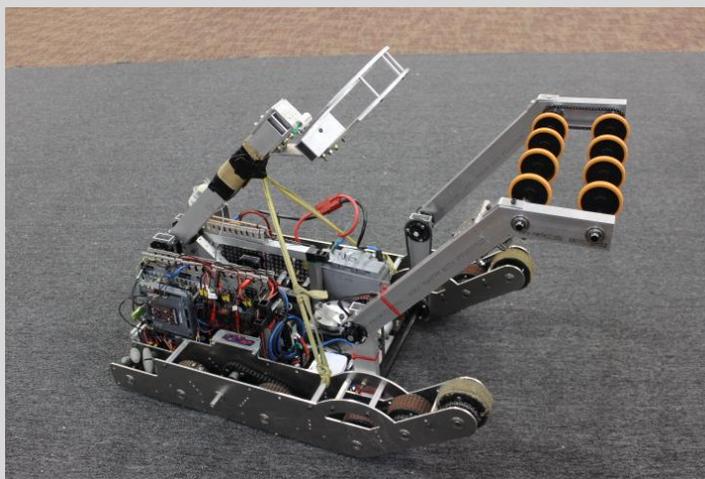
### Ways to help the team

The team can be at the school until late hours of the night. We could order pizza, but we always appreciate a nice home cooked meal. If you are interested in providing a meal for the team, whether it be breakfast or lunch on weekends, or dinner during the week, please contact Karen Gauharou (973-583-3770 or [k2luv2travel@yahoo.com](mailto:k2luv2travel@yahoo.com)). We also greatly appreciate snacks such as granola bars, fruit, and anything else that we can just grab and go with. Thank you!



## All About Team 223:

We would like to congratulate the Lakeland Lancer Band on their wonderful performance at their Winter Concert this past Wednesday. We have completed 3 out of the 6 obstacles for this seasons game. We have also built a practice bot for our drive team to get oriented with the concept of the low bar and shooting the ball in the high goal with the boulders.



## Fun Fact:

One in five STEM graduates from smaller private colleges enroll in a master's or PhD program within a year of graduation, roughly the same rate as graduates of large research universities.

### Student Spotlight

Hello, my name is Heather L. and I'm a senior at Lakeland Regional High School. This year will be my second year on Team 223. In being apart of Team 223 I've gained the understanding and importance of spreading our knowledge of science and technology to the community, as well as a passion for photography. My favorite memory while being on this team was when we went to St.Louis. My other favorite memory was collecting toys for St. Joseph's hospital, and getting to hand out the toys to the kids and seeing the smiles on their faces. I belong to the business department, and have completed a chairman's award video and the reveal video. Also I've took pictures of events and have been documenting the team's progress and life for the last two years. My goal for the season this year is to complete chairman's on time, and to share my view of our team and efforts. the thing I like the most about the team is the diversity. We are all from different schemes of life, but find a common interest and passion in robotics. The concept I like the most about FIRST is being able to spread knowledge to younger people. For example, we show the FLL team at M.J.Ryerson Middle School, what we've learned because they are a future and they are just as avidly involved as we are. We help them with their team and we frequently communicate with them. I heard of Team 223 as a freshman, but I actually joined Junior year when my friends needed a photographer.

### Alumni Spotlight:

Hello my name is Ryan

**Q:**What college are you currently attending?

**A:**I'm currently attending County College of Morris for their 2 year associates program where they have an articulation agreement with NJIT and TCNJ

**Q:**What is your major?

**A:**I'm currently majoring in Mechanical Engineering

**Q:**Do you feel that you were well prepared for college and/or your career from your experiences in Team 223?

**A:**Absolutely

**Q:**In what ways?

**A:**In almost all of my classes I know much more than the rest of the class because of my experiences in 223. I've learned topics that i didn't learn in math class because I came across problems that weren't covered in any of my math classes at Lakeland.

**Q:**What have you gained from being a part of Team 223?

**A:**I've gained so much from being a part of Team 223. I didn't know what I wanted to do until I was a part of a team. I also gained the necessary skills to speak with people of high authority thanks to the World Championships at Saint Louis. Those were the two biggest things that I gained from being a part of 223.

**Q:**What was your favorite moment/memory from being apart of Team 223?

**A:** My favorite moments from being apart of Team 223 was having a design on the computer and then seeing it come to life.



### Mentor Spotlight:

Hello my name is Mr. Gauharou

**Q:** How did you discover Team 223?

**A:** My son joined the team his freshman year 2011

**Q:**What/Who encouraged you to come assist the team?

**A:** My son Tyler

**Q:** What do you like the most about the team and the concept of FIRST?

**A:** Working with students and teaching them

**Q:** Did you know about FIRST before becoming a part of Team 223?

No I did not

**A:** What department(s) do you mentor?  
Design/build

**Q:** What are your hopes and goals for this season?

**A:** That everyone will go home with a new piece of knowledge and that we have a successful season

**Q:** Future seasons?

**A:**That we build on our past experiences and we do not repeat past mistakes



# Stronghold



## 2016 Season *FIRST* Robotics Challenge

*FIRST* annually creates a game to challenge high school students. They develop skills that can be useful throughout their lives. Some skills they develop are strategy skills, elements of teamwork, leadership skills and most importantly, the idea of gracious professionalism. *FIRST* releases a game reveal video along with other helpful tools on a specified date each year which then begins the 6 week build season. This year's game was released on Saturday, January 9<sup>th</sup>. The students on Xtreme Heat Team 223 eagerly gathered around the projection screen to see their new challenge. *Stronghold* is the name of the game this year and the students, as well as the mentors and parents, are thrilled. "Brainstorming immediately began as we travelled to one of our collaboration team's high school, Team 1676 Pascack Pioneers," says Lindsey G., the project manager for Xtreme Heat. There, the students were able to perform the game with humans acting as robots in order to develop a better understanding of the rules and play of the game. Afterward, students broke off into groups to discuss priorities that the robot should possess along with an efficient robot design.

On Sunday, January 10<sup>th</sup>, Team 223 got together to brainstorm as one team. Thoughts were soaring, gears were cranking, and our priorities and goals became clear. In *Stronghold*, "two Alliances of three robots each are on a Quest to breach their opponents' fortifications, weaken their tower with boulders, and capture the opposing tower. Robots score points by breaching opponents' defenses and scoring boulders through goals in the opposing tower. During the final 20 seconds of the Quest, robots may surround and scale the opposing tower to capture it" (Business Wire). Team 223 Xtreme Heat is ready to ignite the season and tackle each obstacle one at a time!

For more information please click on the links below:

Video: <https://www.youtube.com/watch?v=VqOKzoHJDjA>

Manual: <https://firstfrc.blob.core.windows.net/frc2016manuals/FRC-2016-GameManual.pdf>

