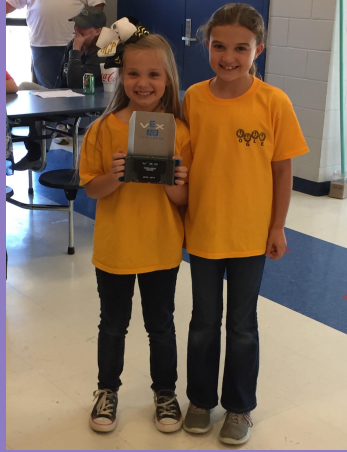


The Adventures of Warriorbots



(a Choose Your own Robotics Adventure Story)

by Madelyn Courtney and Elliot Walsh
Oak Grove Lower Elementary
Team Name: Warriorbots Purple
Team Number: 113F

Introduction to Team

Once upon a time, there were two 3rd grade girls who shared a passion for robotics. They formed a VEX IQ robotics team called Warriorbots Purple. Their names are Elliot and Madelyn.

The logo for Girl Powered, featuring the word "Girl" in blue, a purple lightning bolt icon, and the word "Powered" in purple.

They are both kids of teachers who work at their school, Oak Grove Lower Elementary. The school's mascot is the Warriors. They both joined their school's robotics team and have been inseparable since. They hope you enjoy reading about their adventures in robotics.

This book is a little different from any book you've might have read before. This is a choose-your-own adventure book. Follow the directions at the bottom of each page.

Turn to the next page.....

Building and Designing

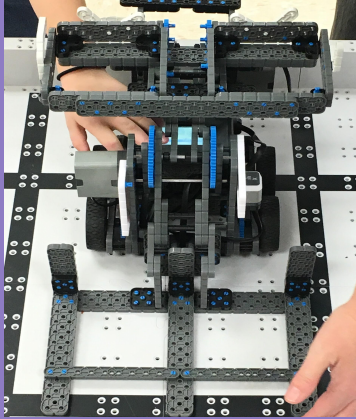


At the beginning of the school year, we built a robot with each other and both of our dads. The original claw had two black bands on it. It was sort of shaped triangular. We thought it was kind of hard to build the robot because it was hard to find the pieces. The kit we ordered only had long cords. We really needed shorter cords instead. It took about three hours to build the robot from start to finish. We thought it was interesting building a robot straight out of a box.

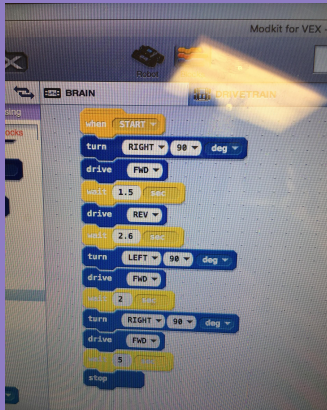
If you want to read about our program in ModKIT, turn to page 3.....

If you want to hear about our competitions, skip to page 4.

Programming



Our “magic spot”
On the field

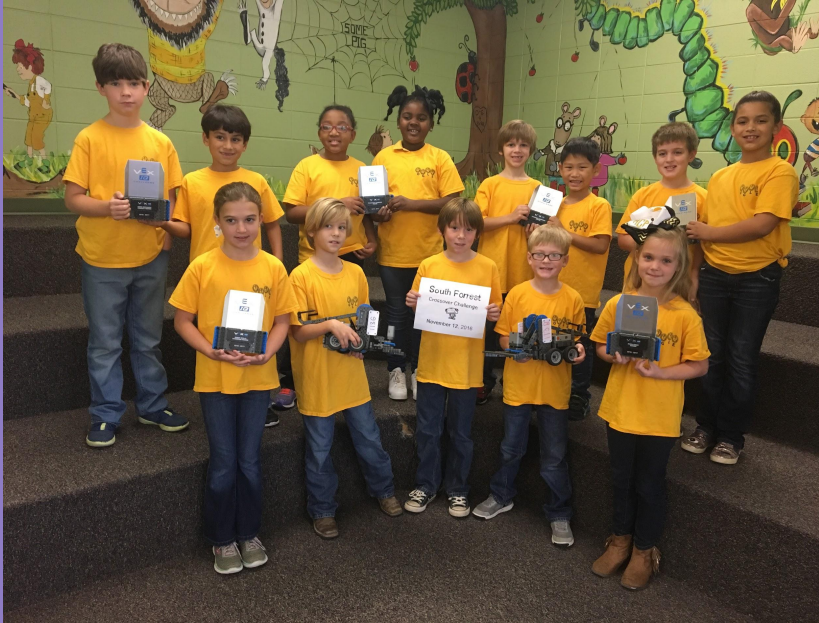


We both agree that programming is the hardest part about robotics. It is because it takes several tries to get it right. We used ModKit to program our robot. We have a “magic spot” that we use when they place their robot during the autonomous part of the competition. It probably took 10 different programs before we got it right. That’s the point of Girl Power though. Girls never give up.

If you want to read about our VEX IQ Girl Powered Event, skip on over to page 5.

If you rather receive an invitation to our Girl Powered Sleepover, turn to page 6.

Teamwork



It takes teamwork to win a robotics tournament. Our school's robotics team has competed in several VEX IQ competitions and have won over 11 awards!!! Our role in the team is to be on the "pit crew". We have to be able to communicate with our team when a robot breaks down. This is the maintenance team that helps fix any robots that might break down. One time, Madelyn helped 6th grade boys fix their robot!!! The boys were shocked that Madelyn could fix their robot.

If you want to come to our Girl Powered sleepover, go to page 6.

If you rather come to our Girl Powered event after school, turn to page 5.

Girl Powered Event



Our shirts say, "Create With Code"

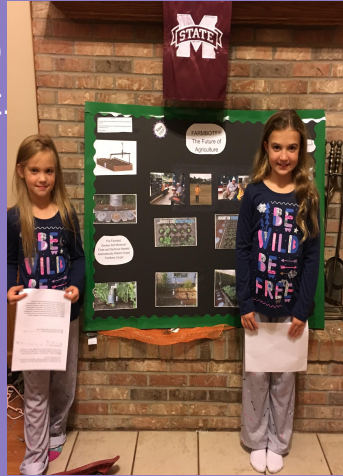
We had so much fun going to the Girl Powered Event at their school. We got to build a part of the robot and watched a slide show about girls who are involved in STEM fields. We had a guest speaker named Katie. She presented her award-winning STEM experiment that she presented at last year's tournament. It made us feel that girls can do lots of stuff like engineering, building houses, and more!

You've been invited to our sleepover! Flip on over to the next page to hear all about it.....

Girl Powered Sleepover

We had a sleepover because we had to practice our robots for our upcoming tournament. We had to learn how to drive their new robot. It was pretty difficult, but we got the hang of it.

We wanted to play and skate around the house, but Madelyn's parents made us practice our STEM project. We practiced for about 30 minutes.



We got to wear matching shirts that said “Create with Code” and we even had matching pajamas! We don’t mind doing robotics, as long as we get to be on a team together. It would be very hard to do this alone, but it’s easier to work with a partner. We hope to have more sleepovers so that we can practice more robotics.

If you choose Design 1, turn to page 7.

If you choose Design 2, turn to page 8.

Design 1 and Modifications

Over the Christmas break, we modified our claw so that it would help pick up and hold the hexballs better. We ended up having several problems with our 1st design. The balls kept falling out of the claw's grasp.



We saw a picture and a video of a different style of robot that got 50 points for skills. This robot gave us some ideas for our new design. We wanted to put a basket in the back and we wanted to do a scooper that could pick up more than one ball at a time. We had to change some things because the basket went too far back and we would have gotten disqualified because it was too long. We learned that we should take measurements of the pieces, before modifying the robot.

Want to hear if we won any awards? Turn to page 9.

Want to hear the future? Turn to page 10

Design 2



We finally decided on our design. We wanted to keep the scoop and basket idea. We thought it needed a little bit of color. We ordered pink and purple VEX parts. We chose these colors because we want to promote girl power. We think that by having a girl-ish robot, then maybe girls will think it's cool. Maybe it will encourage them to have Girl Power and realize that girls can do anything.

Turn to the next page to read about our Excellence Award!!!

Excellence Award



We won the Excellence Award at our 2nd tournament. We also won the Skills Award. It was exciting that we won the best prize in the whole tournament! The thing that helped us the most was interviewing a farmer. We got to make a better STEM project that helped us win the Excellence Award.

After we won the Excellence Award, our school hosted its own VEX IQ tournament. The news came to interview the both of us and we were featured on the news!!! Our team was on there too and even got newspaper coverage. We sometimes get a little nervous when we have to compete with older kids. However, we ended up winning and we were so surprised! Girl Power!!!

Keep reading! Turn to the next page.

Our Future in Robotics



Robotics have helped us choose what we want to be when we grow up. Engineering is fun and so is robotics. Robotics is also all about building and doing what engineers do.

Madelyn's dad is an agriculture teacher. Madelyn one day hopes to pursue a field in farming and robotics. That's why she chose to interview a farmer about how he uses robotics in farming. Madelyn has ideas on how she can make better machines and robots to use in agriculture. She will probably spend her life convincing people that her plans would make better robots. Elliot wants to be an engineer too, just like Madelyn. However, don't tell her mom that she might have to attend Mississippi State University for her engineering degree. (Her mom is a big Ole Miss fan!!!) Ole Miss and Mississippi State are big rivals but Madelyn and Elliot will never be rivals, as long as they stay best friends forever and have Girl Power....

Credits and Information

We give most of the credit to our parents, robotics coaches, and sponsors. Many nice people in our community donated money to our school's robotics program. We also want to thank our principal, Mr. Thomas, for allowing our school to have a robotics program.

Many thanks goes to Mrs. Amaya, our robotics coach. Since we are both teachers' kids, we both have to practice ALOT more than just regular practice times. Mrs. Amaya has inspired us to put forth a lot of extra effort and to have a little Girl Power along the way. We would give her an Excellence Award, if we could.

Team:
Warriorbots Purple 113F
Oak Grove Lower Elementary

Madelyn Courtney and Elliot Walsh
3rd Grade
Title: The Adventures of Warriorbots: (a
Choose Your Own Adventure Story)

Page 11