



Girl Powered OUR STORY

Team 6603E

ELIZABETH JOHNSON

FRANCES TRUONG

JESSICA TRUONG

KAVYA SUNDARAPANDIAN

CHERYL WILFRED

PRAPTI RAMAKRISHNAN

About the girls

Kavya, Jessica, Frances, Prapti, and Cheryl started out in Gainesville middle school. The girls started robotics in sixth grade (while Kavya started in seventh grade) in hopes for a fun and competitive experience. The girls were on separate teams. Yet they all started out knowing nothing about VEX robotics. It took all the girls hours of hard work and trial and error for them to learn the way VEX robotics work.. All of them looked up to the older teams for help and advice.

Elizabeth started out in Marsteller middle school robotics. Like the others she started out in sixth grade robotics. It took hours of painstaking hard work but in the end she made it to states multiple time with her winning team. She joined 6603E after the first competition. (Later on that on slide six)

The Girl's Start

The girls entered the robotics room, excited and nervous at the same time. Frances and Jessica pulled Kavya into the team and appointed her as the lead programmer. Prapti is the "all around" person on the team, she helps anyone on the team who needs help. Elizabeth is also a programmer who helps Kavya. Elizabeth joined later in the team after she left her old team. Frances is the captain and the leader of the engineering notebook. Jessica is the head builder. The team had to start the robot from scratch, starting from the base. It was hard for the team to make the base. The girls went through different types of bases and designs. They had to plan out the design and how it would work. Kavya had to cut a lot of metal to make the base fit together. It took a lot longer than the girls thought it would take. But with a lot of work, redesigning, and errors, the base was finally made!

Now... To Make the Robot Move!

The girls began the hard process of building and programming the robot. They had to start the base from scratch, making the base first. It took awhile for them to be able to make the base sturdy and ready for a lot of abuse on the field. The others started to work on the arm while Kavya started on the program. The arm took a lot longer than the team imagined it would. They had to take it apart and rebuild it multiple times to be able to make the arm work. The axles had bent more than once, and the wheels liked to fall out of the motors. It was a lot of retightening and rescrewing for the team. Once that was done the next problem was the program. It took Kavya a while to be able to find the right configuration for the robot. At first they had a weird configuration, which made the robot hard to move. After debating how the motors were set up, Kavya and the other girls, figured out how to make the base drive right.

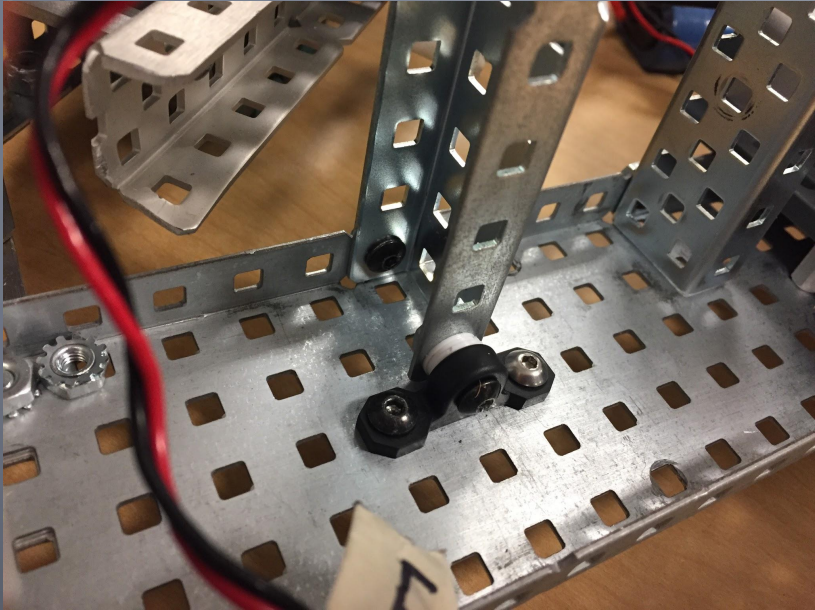
The Results

It was the first competition, the Battle at the Bridge, December 1, 2016. The smell of metal being filed down and cut filled the room. The students and parents excited chatter filled the girl's ears. They were excited and very nervous. Frances, Jessica, and Kavya rushed to the inspection table. They were quickly passed off. With a new found confidence, the team headed over to the drivers meeting. Within an hour the matches had started. The first match was interesting. It was the first time the girls had went onto the field with others. Sadly, the girls had lost the first match. Kavya kept track of the matches and what time they started at. Jessica and Frances made minor adjustments during time in between matches. The end of the competition came, sadly, the team only won one match and did not make the alliance selection. They brushed the defeat off their shoulders. They had learned how to fix the robot and how to make it better. With this, the girls are ready and excited to start the new competition.

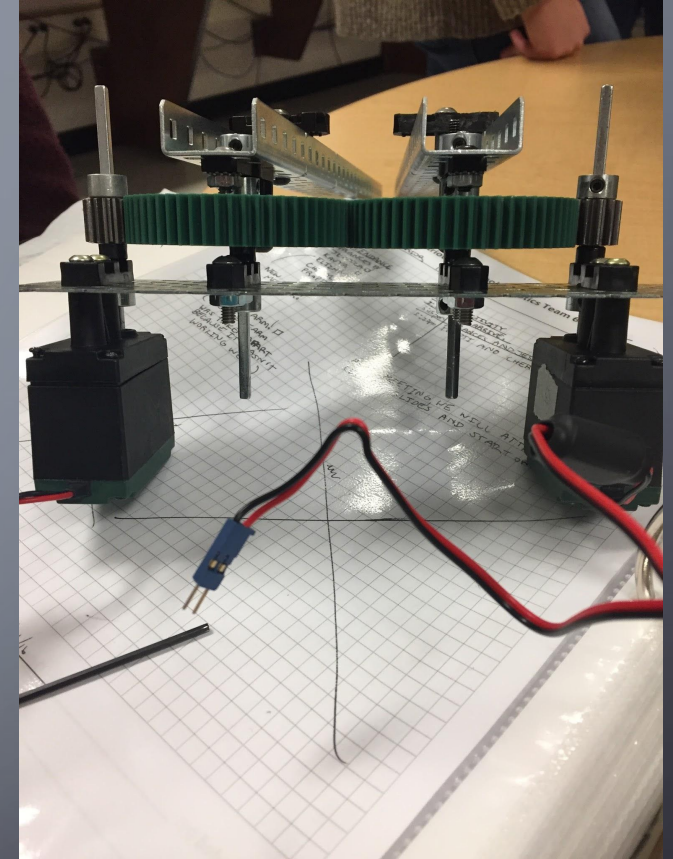
The Story Doesn't End Here...

Now the story doesn't end here. The girls still have more competitions and years together. Elizabeth joined the team soon after The Battle at the Bridge. She is another programmer that helps Kavya with her work. The team is determined to go to states. They work hard every meeting to make the robot the best they can. Even to this day the girls still work hard to be able to do their very best. After all, the best kind of power is girl power!

Picture time!

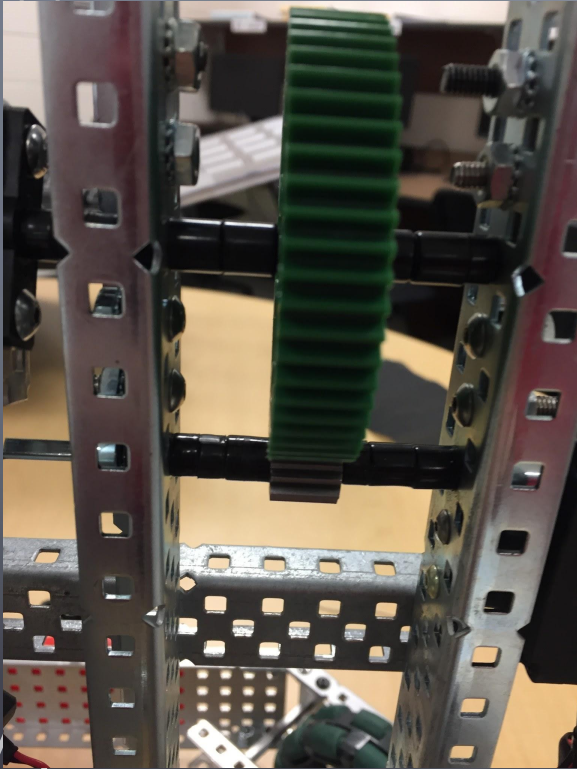


The attachment of the arm to the base



The start of the moveable wrist that attaches to the arm

More Pictures



The gear that moves the arm up and down



Few of the many spacers that the girls had to put in

Credits

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TEAM 6603E eSUPERIOR

PATRIOT HIGH SCHOOL