

# Girls Can Do It!

Team 6855B  
Warrior VEX IQ  
Westminster Christian School  
Miami, FL USA

Team Members: Bianca, Dahlia, Daniella, Diana, Emma, Valentina



When you hear the phrase “**Girl Powered,**” what comes to mind? How is it reflected in your team’s approach to robotics?



What comes to my mind when I hear the phrase Girl Powered is that **girls** can do anything. It is reflected in our robotics team that even though we are an all-girls team that doesn't mean we are any less capable. Girls can still achieve great things as we demonstrated in our first event of the season winning the Excellence and Robot Skills Awards. In robotics, we achieve these things by working together as a team and by helping each other and always encouraging each other at all times.

# MEET TEAM 6855B



**DIANA**  
Historian



**DAHLIA**  
Building Leader



**BIANCA**  
Strategist



**VALENTINA**  
Wiring, Journal



**DANIELLA**  
Programmer



**EMMA**  
Online Challenges

## How does your team take initiative to create a more inclusive environment that attracts a diverse group of students?

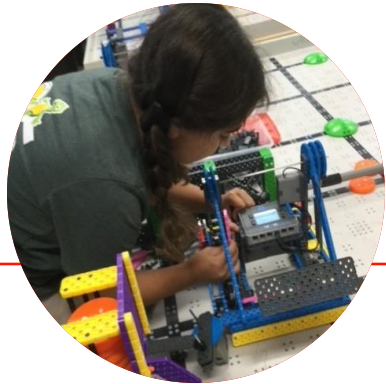
Our team encourages different people to join robotics by telling the other students that their gender or ethnicity does not matter, and we show them that we never quit, we stay strong, and we never need to give up on anything. Each person on our team attracts people that do different things than us. For example, we are teammates who sing, dance, play basketball, play the trumpet, and play softball, and each activity teaches us various skills. We encourage different people from our school, whichever elective they selected, Project Lead the Way or Spanish, to apply for one of our teams. We host teams from other schools so they can see how we run our meetings and offer help to new teams. This year, we are helping a team in Montgomery, Alabama, and a team from Miami, Florida. The different experiences they encounter help us to be more diverse in our thinking.



# Various Team Roles



Team members do various jobs. We rotate through all the jobs, and we see who is the best person for that particular job as opposed to some of the other required assignments. It is important to know what everyone does in case someone can not come to a competition. Also, during the judges' interview, we can help each other remember what we need to say.



## BUILDING

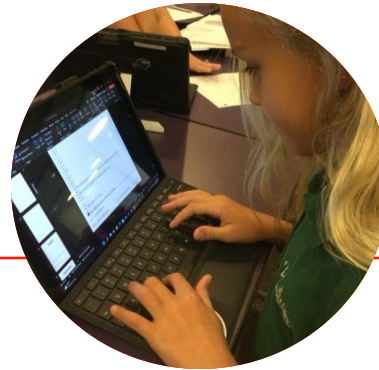
For building we look at videos on YouTube. We take ideas from the videos and robots we see at competitions.

Dahlia and Emma are the key builders, but everyone has helped at different times.



## DRIVING

We all take turns driving and pair up people and see which person drives best with each driver. We then decide who will be 1st or 2nd driver.



## JOURNALING

We use the VEX IQ PowerPoint template for our journal entries. Each person is assigned a different section of the journal. We all make entries in all sections.



## PROGRAMMING

We use VEX IQ Blocks for our programming. Daniella is our key programmer, but the rest of us help with robot set-up and measuring distances.



## ONLINE CHALLENGES

We completed the Girl Powered and the STEM Online Challenges by Diana giving the team a section that they needed to complete.

"Alone we can do so little; together we can do so much." *Helen Keller*

What do we learn from the experience of trying various roles?

## LIFE SKILLS

Everyone on our team does each of the jobs needed to have a successful team. Through the experience, we learn lifelong skills that will help in any job we chose to do. We learn to work as team, give feedback in a positive way, accept feedback from other people without getting our feelings hurt, and being nice to each other even when we make a mistake.

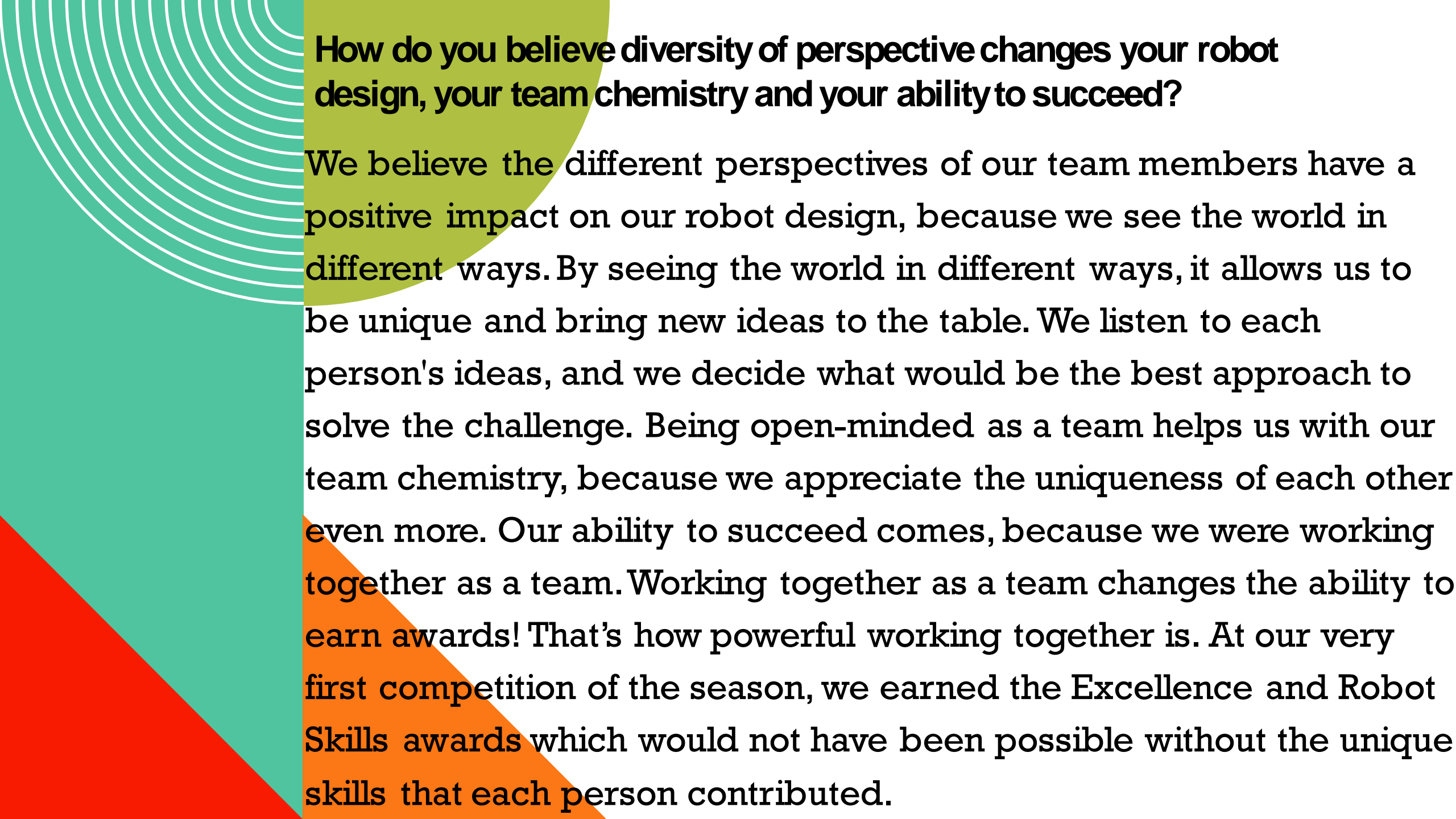


WHERE ARE TEAMMATES ARE FROM...



THE DIVERSITY ON OUR TEAM HELPS BRING DIFFERENT PROSPECTIVE IN THE WAY WE APPROACH CHALLENGES





**How do you believe diversity of perspective changes your robot design, your team chemistry and your ability to succeed?**

We believe the different perspectives of our team members have a positive impact on our robot design, because we see the world in different ways. By seeing the world in different ways, it allows us to be unique and bring new ideas to the table. We listen to each person's ideas, and we decide what would be the best approach to solve the challenge. Being open-minded as a team helps us with our team chemistry, because we appreciate the uniqueness of each other even more. Our ability to succeed comes, because we were working together as a team. Working together as a team changes the ability to earn awards! That's how powerful working together is. At our very first competition of the season, we earned the Excellence and Robot Skills awards which would not have been possible without the unique skills that each person contributed.



# Who is your STEM role model, and why?

## Does this person inspire you to have a more inclusive team/program? How?



- For our real-life STEM role model, we chose Katherine Johnson. We chose her because she is confident, strong and committed to what she does. Katherine is very inclusive, so she inspires us to have a more inclusive team. How you may ask? Katherine is inclusive as she provided a chance for native American women to work at NASA the time of segregation.



- We also have a fictional STEM role model which is Rosie the Riveter. She is also are team mascot. According to History.com “Rosie the Riveter was the star of a campaign aimed at recruiting female workers for defense industries during World War II, and she became perhaps the most iconic image of working women”.



- Both woman inspire us to have a more inclusive team, because they opened the door for woman of all races and incomes so to have a better life. We want to help other girls join robotics and study subjects in STEM. We do this by mentoring other teams in our area, encouraging girls of all backgrounds to apply to one of our teams, and being as successful as possible at each competition.

# THANK YOU



If you would like to like to reach anyone of us to ask questions, please email our coach at [cpastrana@wscsmiami.org](mailto:cpastrana@wscsmiami.org). We would LOVE to help more girls pick robotics as their competitive activity.