Girls who fill love with a robot

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When I hear the word Girl Powered, the first thing I think of is careful. Many people might think that girls are significantly less capable than boys in engineering and mechanics. However, we feel that when it comes to assembling machines and programming, women will show a more careful and stable side. The spirit of our team is that we pay attention to details and stability, and do not seek to be ahead of schedule, but we must master every little thing, avoid mistakes in the process, and do it right at the first time. We never ignore small mistakes and learn from them. Secondly, it is strong against pressure, women are more resilient, and they are more determined in adversity. When faced with difficulties and setbacks, team members will encourage each other, hold firm beliefs, and not be afraid of difficulties. Third, because our team members are all girls and have strong observation skills, we can always find the characteristics and strengths of each person in the process, and motivate the team members in a targeted manner according to these characteristics. Finally, there is empathy. When there is a conflict in the team, we all communicate in a way that is euphemistic and does not hurt others, which is more inclusive.

Mention inclusivity, let's talk about the importance of inclusive teams. Because of multiculturalism, we need to increase acceptance of everyone's ideas and respect in different cultures, in order to make the team a peaceful and diverse place. Also, teaching each other vary knowledge and technique helps. Everyone has different kinds of expertise. In this way, we get to cooperate better and study distinct things. When you have a inclusive team, you can get harvest many different perspective.

We think the diversity of perspective is very indispensable.
First, when making the robot. There must be some problems that trouble us a lot. Perhaps we could come out with a idea to solve it, but we often had to redo most of our struggle. This would waste much of our time. However, if we have different kinds of opinions, there may be one that

could save much time, and even better than the old one. On the other hand, with the more diversity of perspectivies, we would lost less mistakes. Second, some times we would be tired of facing codes, struggles or even teammates. These times, if there was some one who bring another perspective to us. It might change our minds. And we could keep going on.

To sum up, we believe diversity of perspective could improve our ability to succeed. Diverse perspectives can provide more ways to choose. Furthermore, these can change our minds to lead us to a better way. Therefore, we're doing our best to have wide range of opinions.

Also, we have learned a lot from this experience.

YUN- ZHEN is a robot maker and leader in this team. She learned about teamwork and how to coordinate with teammates when perspectives differ.

HSIN-YI takes the part of the programmer in our team. She thinks it is this time that helps her realizes the magic of coding, what she was learning at that time, is not only for solving problems teachers gave us or for taking exams.

PEI-YUN takes the part of the driver and builder in our team. While building the machine, she learned how to communicate with others and work as a team. Being a driver also taught her logical thinking and the ability to adapt to emergencies.

CHEN-JIE tried driver, maker in the team.She learned a lot from the process of discussing and mistakes. All the experiences made she braver to face new things and have the better question-solving ability.

Last, I want to introduce my STEM model, Dorothy Johnson Vaughan.

Dorothy Johnson Vaughan was an American mathematician and human computer who worked for the National Advisory Committee for

Aeronautics (NACA).she became the first African-American woman to receive a promotion and supervise a group of staff at the center.During her 28-year career, Vaughan prepared for the introduction of machine computers in the early 1960s by teaching herself and her staff the programming language of Fortran. She later headed the programming section of the Analysis and Computation Division (ACD) at Langley.

I realize Dorothy Johnson Vaughan because of the movie <<Hidden Figures>>, It is a story about: during the space race between the United States and the Soviet Union and racial discrimination in the United States, three African-American women, Kathleen, Dorothy, and Mary, were working on calculations related to the Mercury Project at NASA's Langley Research Center. Skin color and gender were harassed and discriminated against, but they still did not give up their ideals and duties, and finally helped NASA, in February 1962, made John Glenn the first American astronaut to enter Earth orbit.

She overcame racial and gender discrimination, led a group of men as a woman, convinced them with her own strength, and became the behind-the-scenes hero of the Mercury Project. This made me understand that a good scientist won't be segregated by race and sex. An inclusive team is also indispensable. Imagine if the team rejected her because of her gender and race, then Mercury Project will not succeed either. Dorothy Johnson Vaughan not only shattered the stereotype that women are not good at STEM, but also taught me how important inclusivity is to teams.

Hope our team can make more progress, not only inclusive, but also team cooperation and coordination. I believe everyone will learn a lot in progress.