



Girl Powered

Team 90H Rogue; Downingtown, PA

Sejal P. & Malaika Y.

FOCUS TOPICS

GIRL POWER OVERVIEW

What does the term "Girl Power" mean to us?

TEAM DIVERSITY

How does the team support and encourage diversity in STEM?

SOCIETY'S STANDARDS

What does society think of women?

STEM ROLE MODELS

Inspiring women in the STEM fields



“Women belong in all places where decisions are being made. It shouldn't be that women are the exception.” - Ruth Bader Ginsburg.



“GIRL POWERED”

By definition, “Girl Power” is described as a slogan that encourages and celebrates women’s empowerment, independence, confidence, and strength. However, to us, girl power means more than that. It means women can be held to the same standard in life and profession as men, including STEM fields. STEM is an acronym for science, technology, engineering, and math, whether it is becoming a software developer, mechanic, or even a robotics engineer. Approaching robotics on a team of three boys to two girls, we have displayed that as girls, we are still capable of contributing our skills to 90H Rogue. For example, Sejal’s interest in crafts has supplied the team with its Lead Build. In addition, Malaika’s enjoyment in story writing has numerously aided the team in the creation of the team’s Engineering Notebook. In the end, “Girl Power” in STEM motivates young women to take initiative in constructing the future of the world.

“Every girl, no matter where she lives, deserves the opportunity to develop the promise inside of her.”

-Michelle Obama



Diversity is key component in STEM growth and World growth.

DIVERSITY IN STEM

One thing that we have learned about our robotics team throughout the 2021-2022 VEX season is that we have many differences among us, but we should not let that divide our team. We have learned to not only admire each other's differences but to encourage them. We let this diversity influence and guide our team to success. Our robot is not a figment of one person's idea but a fraction of everyone's. We let our imagination and creativity run wild before coming as a group to finalize a design. Had we all had the same interests and likes, we would not be able to experiment with the material. Even though we may not always agree on everything, we will always be able to overcome the obstacles that come our way as a team. For instance, at the beginning of the season, we all had different directions that we wanted to take our robot in. This led to a lot of quarrel and disagreement. However, we still managed to compromise and meet each other halfway. Tying this into "Girl Powered," our differences may have held us back in the past, but we refuse to let it stop us from contributing to the 90H team.

On the 90H Rogue team, we all divide and conquer our roles to get everything done efficiently for our competitions. Each of us uses our expertise to do our best work, but we all aren't always able to finish doing the different aspects of the robot by ourselves. Sejal, our Lead Build, may need help with working on the robot from time to time as it is challenging to do it alone. Malaika, our Lead Journalist, isn't always there to track our progress. This is where the team comes together to work side by side and prepare for the competition. We all come together and work on specific parts to get the job done. As talked about earlier, the team consists of mostly boys but that doesn't affect how much the girls devote to the team. That is not to say that girls contribute more to the team but offer just as much. Girl power is motivation and inspiration for young females to pursue their best interests no matter what society has gendered that field as.

As a group composed of both males and females, all from South Asian descent, this team truly displays how society has developed. What we mean by this, is that taking the norm from around a few decades ago, it would be unusual or unacceptable to see young children such as us, working together to create a manual robot and compete against other teams similar or dissimilar to us. Team 90H's goal is to not only create a robot for upcoming competitions, but to inspire young children of all colors and genders to experiment in robotics. Our mission is to create a more diverse and unique group of kids in STEM.

Are we paying for the
product or the package
that it comes in?

- Pink Tax

“Do what you are passionate about. Don't let others tell you what is best suited for you. Follow your dreams and never give up on them.”

-Team 90H Rogue,
Vexman

SOCIETY'S STANDARDS

Society has labeled activities such as Football to be “manly” or “boyish.” Other things like makeup are considered “girly” or “feminine.” This is extremely unfair. Why can't women do the same as men? Take The Pink Tax as an example that needs to be addressed. The Pink Tax refers to the higher prices paid by women for certain products and services also used by men. This is just one example of how women are unjustly treated. Another example is that in STEM fields, women earn 23% less than men. Currently, lots of women are entering STEM fields despite what society says. Both girls on 90H at first didn't want to do robotics at first because they thought it was a “boy thing.” As they started to explore the many possibilities that could take place in robotics, they got more and more interested in it. Taking all that has been stated into account, girl power is the driving force behind females of all categories to face life as independent, confident, and empowered women. Our message to all the young girls interested in joining robotics or any fields in STEM is to not let anybody or anything dictate your dreams.

**"Never be limited
by other's limited
imagination."**

-Mae Jemison



On Sept. 12, 1992, Mae Jemison became the first African American woman in space

FEMALE STEM ROLE MODELS

Many women that came before us, had to deal with the ongoing pressure to give up on their dreams because they are not male. Take Mae Carol Jemison as an example. Jemison was a former NASA astronaut and is famously credited with being the first African American woman to travel into space. Additionally, she still works as an American engineer and physician. Jemison even founded a technology research company after leaving NASA in 1993. To this day, she continues to inspire hundreds of women, among them, us. Mae Jemison inspires us to never be afraid of doing something new, even if you are the only one courageous enough to do it. Her actions teach us to stand up to unfair stereotypes and labels. To be brave, be fearless, and most importantly, be "Girl Powered."

Dr. Hayat Sindi is one of the multiple upstanding women who broke through society's barriers of going into a STEM field. Dr. Sindi is a medical scientist famous for her contributions in medical testing and biotechnology. When she went to King's College London she was not only faced with sexism; she was pressured to abandon her religion. Dr. Sindi didn't believe that her gender, religion, or race had any importance to her scientific contributions. Dr. Sindi also won awards such as Mekkah Al Mukarromah and the 2011 Emerging Explorer, showing that her hard work paid off even through all the struggles she had to overcome. This inspires me and my team to work harder as we make our way through the vex season. She shows me that if we try for the best outcome, we can succeed in not only STEM but in life.

CREDITS



Team Members

Tanuj R. (BL), Nihal T. (TL), Sejal P. (M), Vikas D. (TR), Malaika Y. (BR) Created By: Sejal & Malaika

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