

DOING ROBOTICS

“LIKE A GIRL”

97052A

Breaking the Glass Ceiling

“Like a Girl”

We're proud to say that we do robotics like a girl. In the past, this phrase has been used to demean and discourage women. Now, we are reclaiming it to show that we will no longer allow ourselves to be held back. Like a girl, we will be the generation to break the glass ceiling.



What sets 97052A apart?

01

LEADERSHIP

97052A is proud to say that they are a women-led team

02

OUTREACH

We attend events such as *Girls in Aviation* or *Women in STEM* at Lockheed Martin

03

RECRUITMENT

We strive to recruit women and inspire more women to join STEM

04

COMMUNITY

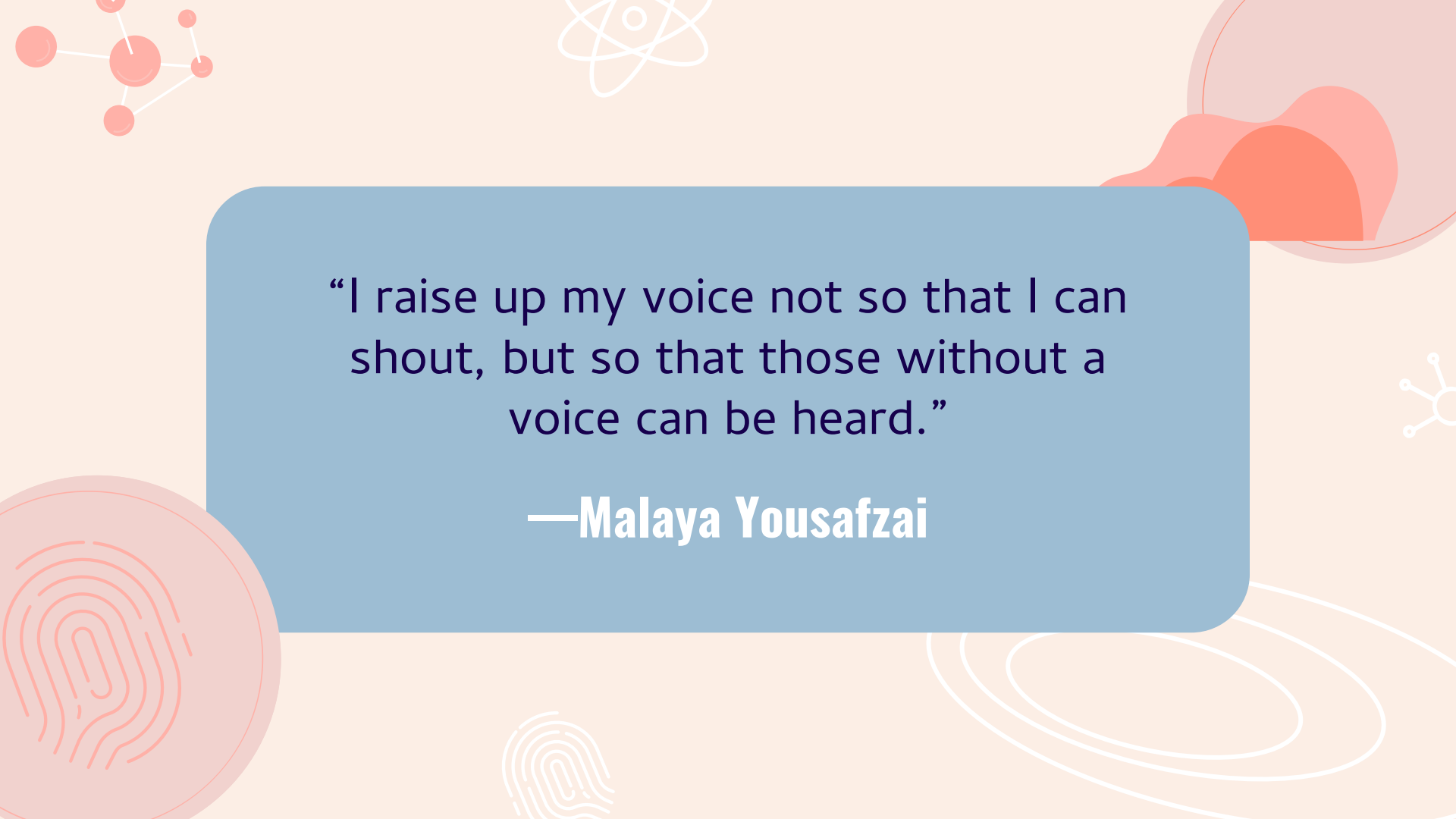
We support our sister-team 4717 (FTC), also a women-led team

Girl-Powered

When we hear girl-powered, we imagine a world where women are front and center. A world where young girls are told that they can be anything they want. A world where women are allowed to be loud and take up space in male-dominated areas.

There are many women who came before us who were determined and brave and more. They created cracks in the ceiling for the girls of our generation. It won't be until we break the glass ceiling that a girl's voice will be truly heard.





“I raise up my voice not so that I can shout, but so that those without a voice can be heard.”

—**Malaya Yousafzai**

Our History and How We Take the Initiative

97052A was founded Katie Guise in 2017. Although it was initially very small, it quickly attracted people due to its friendly environment. That environment can still be seen today where we welcome everyone regardless of gender, race, or sexuality.

We strive to maintain an environment where everyone's voice is heard equally regardless of gender. We also seek to inspire the girls on our team and attend female-centered outreach events like Girls in Aviation. We also want to influence the girls on our program's FLL Junior team by giving them female role models to look up to.



Our members joined our sister team 4717 to attend the Girls in Aviation event where they met inspiring female pilots!

Our History and How We Take the Initiative



Lexie Young, one of the current co-leaders, recruited women to join robotics. One of the recruits, Abigail Lin, quickly rose through the ranks as Software Lead before joining Lexie as a co-leader where 97052A saw not one but two women leading the team.

Our History

2017

Katie Guise founds
97052A

1



2



2019

97052B is founded
by Lexie Young for
freshmen

3



2018

Katie Guise
becomes the first
female team lead in
team history

4



2020

97052A sees Lexie
Young become the
second female lead
in team history

5



2021

Abigail Lin assumes
role as co-leader
with Lexie Young

Team Roles

We encourage our members experiment with various roles to see what interests them. Oftentimes, they'll find their happy place and remain in those roles for the rest of their time in robotics. But these roles are never restrictive! Members are free to swap out roles as desired. One of our co-leaders worked in Outreach, Notebook, Hardware and even did a short-lived stint in Design before taking on the role as a team lead!

However, we do hold discussions and facilitate learning sessions so everyone can learn from each other. This allows everyone to gain new skills and knowledge from each other which encourages curiosity.



One of our current co-leads and another member joining the Drive Team as Coaches. The other co-lead is taking the photo to later be placed in the Notebook.

Diversity on Our Team



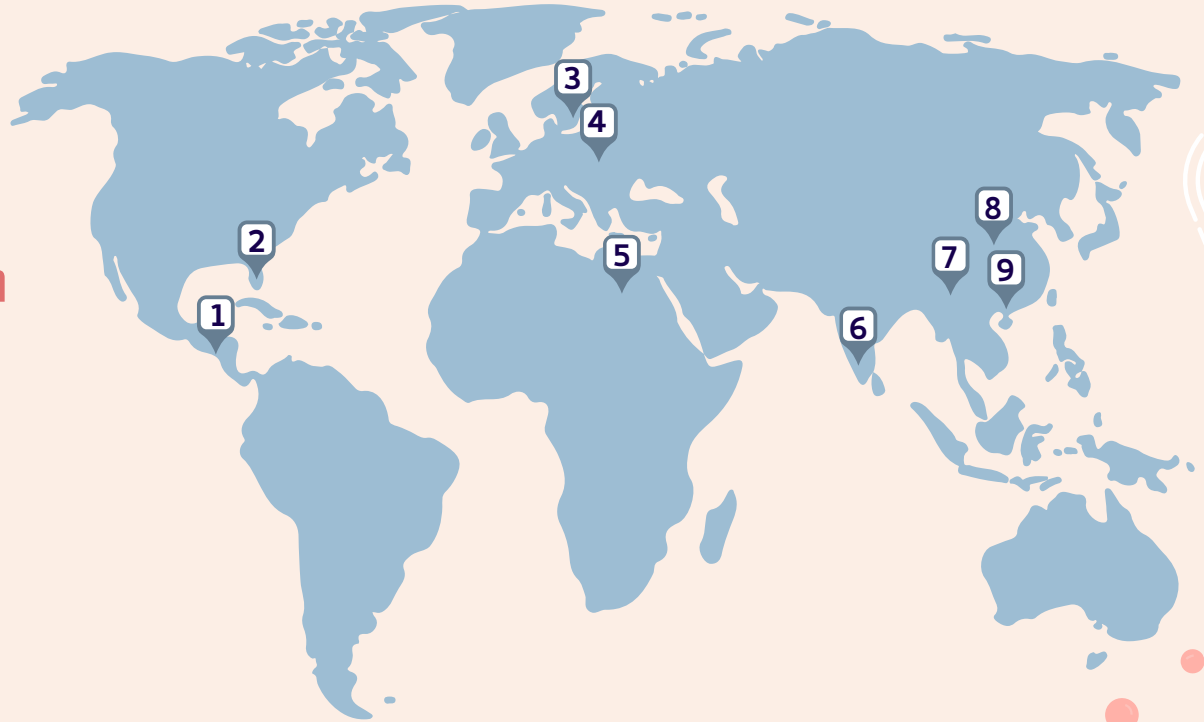
Our redesigned logo was inspired by the Chinese cat paintings of Gu Yingzhi mixed with postmodern minimalism. We wanted it to look like the neon signs seen in Chinatowns but with an American twist.

We are open towards students of any background and seek to provide a safe space for anyone that needs it. Our team reflects our commitment to diversity. This allows us to hear and incorporate perspectives from people of diverse backgrounds which is reflected in our robot design process. Having a diverse team allows our team to be even closer as no one is afraid to be unique which encourages people to share different ideas. We believe our diversity is a key part of our success as a team.

Our Diverse Roots

KEY:

1. **Nicaragua**
2. **Florida, USA**
3. **Stockholm, Sweden**
4. **Posen, Germany**
5. **Egypt**
6. **Kerala, India**
7. **Xi'an, China**
8. **Beijing, China**
9. **Lianjiang, China**



Diversity: Our Success

On our team:

5/7

Come from immigrant families

60%

Of leadership positions are held by women

3

Speak another language at home



Our Stem Role Model



Po Dickison is the teacher in charge of the Hagerty Robotics program and works tirelessly day and night to run 3 Vex Teams, 2 FTC teams, an FLL Junior team, and a Roboboat team.

As a Laotian immigrant who taught herself English, Po Dickison has a commitment to diversity and strives to make robotics accessible to non-English speaking students. She also organizes outreach events on the behalf of her teams with an emphasis on female-centered events to encourage more women to join STEM.

Many graduated students attribute her as their inspiration for entering the STEM field and she is often seen pushing girls of all ages into leadership roles.

A Girl Powered Future

We reclaimed the phrase “like a girl” to take pride in ourselves. We see this phrase as a reminder of the many women who came before us. These inspiring women paved a path to the glass ceiling that still holds women back today. But no longer will we allow this barrier to hold us back. The future is powered by the girls of this generation who will be the ones to finally shatter the glass ceiling. And then, over the shouts of others, a girl’s voice will finally be heard.



The background is a light peach color with various scientific and technological icons. In the top left, there are white concentric circles and a molecular structure with red spheres and white lines. In the top right, there is a large red circle containing a white fingerprint icon. On the left side, there is a smaller white fingerprint icon. At the bottom left, there are several overlapping red and orange organic shapes. At the bottom center, there is a white icon of a network or atom with a central circle and three lines extending outwards. At the bottom right, there is a white icon of an atom with a central circle and three elliptical orbits.

2,916,000

women are in STEM, making up just 27% of the STEM field (US Census). There is still much progress to be made.



**WE CAN
DO IT**

The image features a central blue rounded rectangle containing the text 'WE CAN DO IT' in white, bold, sans-serif font. The background is a light orange color with several decorative elements: a large fingerprint icon in the top-left corner, a smaller fingerprint icon in the bottom-right corner, a stylized atomic symbol at the top center, a molecular structure at the bottom left, and some abstract white lines in the top right. There are also some red and orange abstract shapes at the bottom right.

THANKS!

Doing Robotics “Like a Girl”

Alexa (Lexie) Young and Abigail Lin
97052A, Vex Robotics Competition
Orlando, Florida, USA

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Bibliography:
<https://www.census.gov/newsroom/stories/stem-day.html>

