



*a new legacy*


8838C Legacy



# THE *"game manual"* OF 8838C

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We all used to be lonely cubes. Together, we form a  
7-stack. Together, we can achieve anything.



# Creating our own *legacy*

We are team 8838C Legacy from Irvine, California. As a majority female team, we strive to raise awareness about the absence of females in the field of STEAM. We believe that every team member should be given an equal opportunity to showcase their skills and ideas, regardless of gender. We hope that this challenge is the start to a newer, brighter legacy.



# 8838C

(featuring boba)



From Left to Right: Diya Malik, Ayla Kaliponi, Marcus Shih, Joshua Yang, Grace Lin, VanPhuong Ngyuen, and Sofia Ahmed

# 8838C *legacy*

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## Meet the Team

### **JOSHUA YANG**

Joshua Yang is our main driver and programmer. He gets to express his skills and innovative personality through robotics.

### **VANPHUONG NGUYEN**

VanPhuong Nguyen is 8838C's team leader. As team leader, she organizes the team and brainstorms new ideas. She also works on the notebook with Sofia and occasionally coaches at tournaments.

### **SOFIA AHMED**

Sofia is team 8838C's notebook manager and main Scout. Sofia is in the eighth grade at Orchard Hills Middle School. Sofia enjoys playing tennis and reading books in her free time



# 8838C *legacy*

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## Meet the Team

### GRACE LIN

Grace Lin is the main builder for the team. She is one of the four 8th graders on team 8838C. As the main builder, she focuses on the mechanical aspects of the robot.

### DIYA MALIK

Diya is one of 8838C's backup drivers, and is a coach. Diya is in the 7th grade at Orchard Hills Middle School. In her free time, she enjoys many sports such as basketball and softball.

### AYLA KAILIPONI

Ayla Kailiponi is a builder and a backup driver for 8838C. As a builder she focuses on minor fixes and accesses problems. She also scouts at competitions if she is not on the drive team.

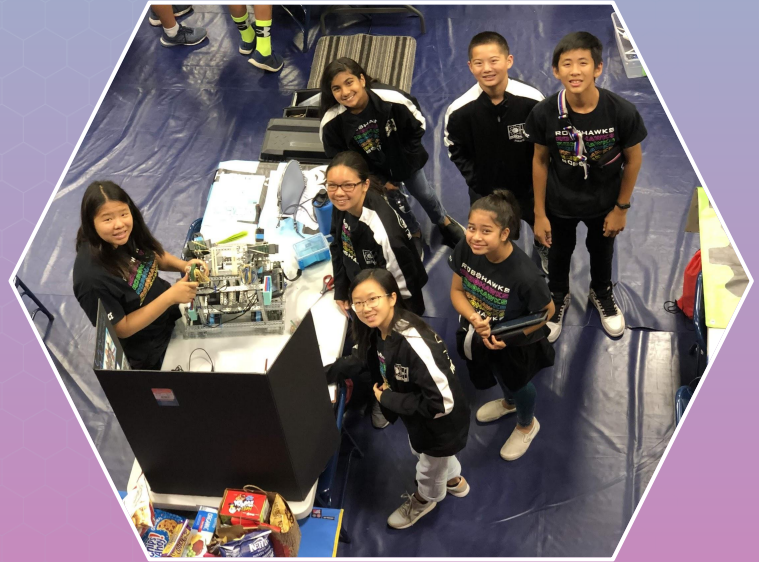
### MARCUS SHIH

Marcus Shih is another one of our builders for team 8838C. He assists Ayla and Grace with any problems on the robot. Additionally, he is the main illustrator for the notebook and creates detailed diagrams of the robot.



# A Seven "Cube" Stack

Throughout the 5 ½ months we've been a team, all seven of us have realized that every single member plays a crucial part. Whether they're especially good at driving or are able to clearly document ideas, every member contributes to the best of their ability. "Intaking" this year's members was similar to a robot intaking a cube. While we may not have gotten very far alone, the seven of us have been able to have many achievements together, similarly to how a stack of seven cubes can make a larger impact on the match score than just one.





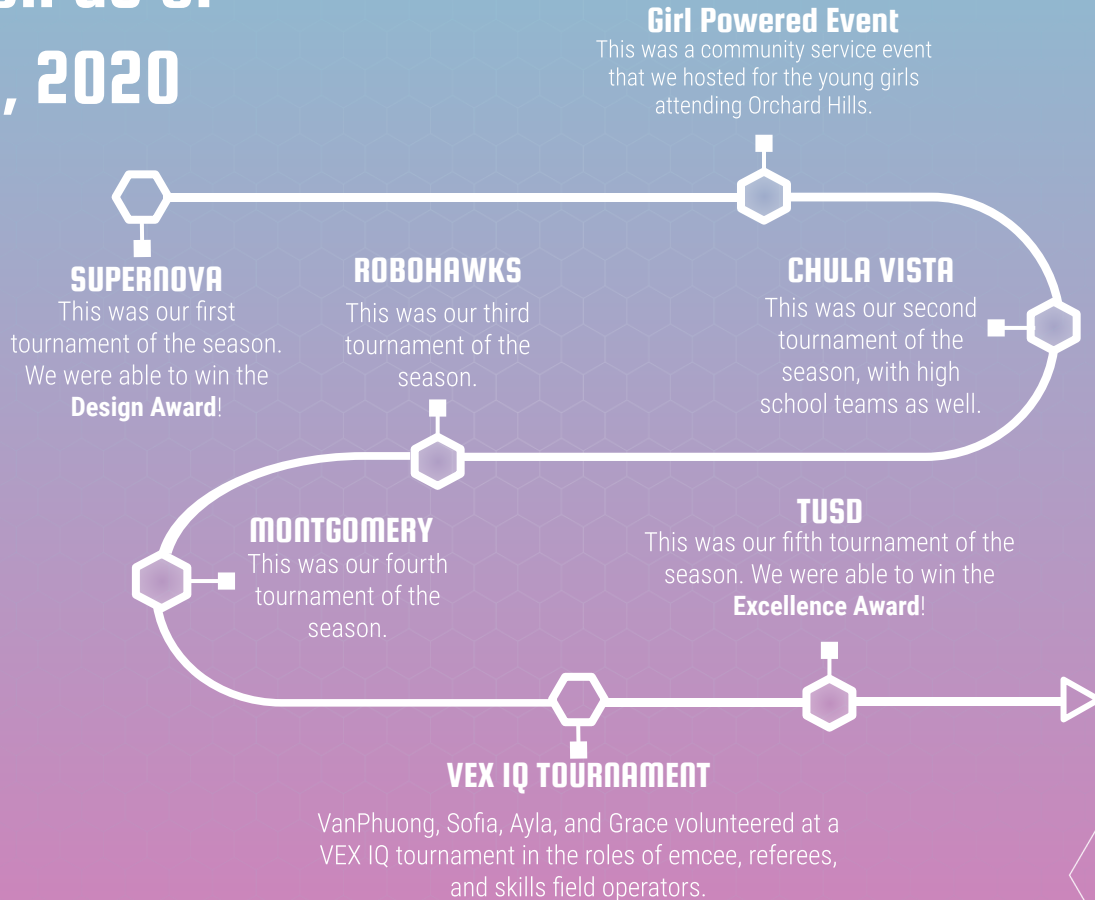
# OUR SEASON AT A GLANCE

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An overview of our season up  
until January, 2020



# Our Season as of January, 2020



# Girl Power is "Taking Over"...

To us at 8838C, Girl Powered is more than just being a majority girl team. It's about changing the face of robotics as we know it. For years, robotics has widely been considered a "male hobby". Now, more and more females have become interested in robotics and have begun to see themselves doing something STEAM related in the future. We are proud to be part of the new future of STEAM, where we can all follow our dreams, without any limitations.



# "Stacking Up" on Girl Power!

During multiple competitions, our drive team has been all or majority girls. Both Grace and VanPhuong have coached on multiple occasions, helping to direct the driver during matches. Although Sofia hasn't coached often, she uses her observation skills to scout teams, which is a crucial part in alliance selection. Ayla was our team's main driver for the first three competitions. She proved to be resilient, determined, and humble, all traits which help make her such an amazing driver! Additionally, Diya Malik, who is a back-up driver has also been practicing her skills on the fields as well. Soon, she will be "taking over" the game in upcoming tournaments!





# COMMUNITY SERVICE

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We hope to spread our love of robotics around Orchard Hills through different types of community service, from Girl Powered Events to VEX IQ.





# GIRL POWERED EVENT

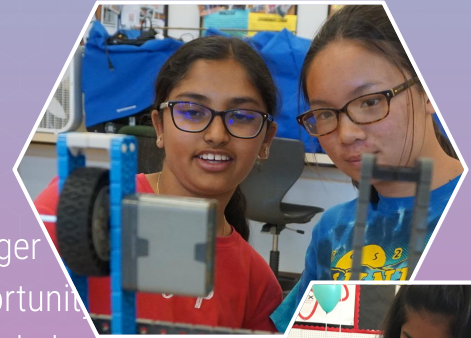
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Inspiring younger girls to discover the magic  
of STEAM.



# GIRL POWERED EVENT

In late October, we hosted a Girl Powered Event for the younger elementary girls attending Orchard Hills and gave them an opportunity to see what robotics is like. There were over 75 girls who attended. The day was filled with smiles and laughter, and many girls requested to do it again someday! To all of us, this experience was irreplaceable, because we were able to share how much robotics means to us to a younger audience and hopefully inspire them to explore STEAM in the future!





**Group photo with all the elementary girls!**



# VEX IQ

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Reaching out to future generations with a helping hand!

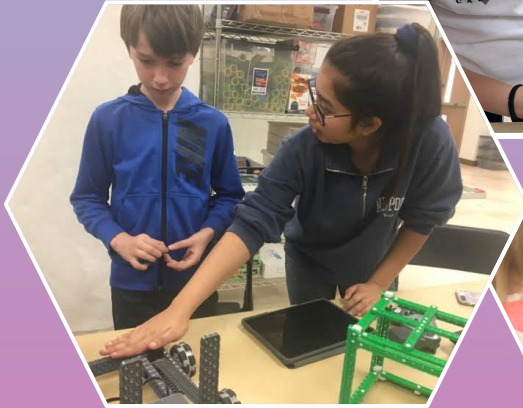
# VEX IQ TOURNAMENT VOLUNTEERING



In late November, four of us were able to volunteer at a VEX IQ Tournament hosted by our school. We were able to experience the “behind the scenes” of a tournament and tried jobs based off of our strengths, or just for the experience! Not only were we able to give back to our community, but also have lots of fun!

# VEX IQ VOLUNTEERING

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Throughout our season, several of our team members have volunteered at our school's VEX IQ program. In our free time after school, some of our team members like to go over to the VEX IQ room and mentor the elementary students. We all love to share our love for robotics and we hope to help inspire the younger students to continue on with VEX in the future years to come!

The background features a gradient from teal at the top to purple at the bottom, overlaid with a faint hexagonal grid. On the left and right sides, there are clusters of 3D wireframe cubes and hexagons, some of which are highlighted with small teal dots at their vertices.

# FUNDRAISING

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Learning not just robotics skills, but people skills  
as well.

# DIPPIN' DOTS FUNDRAISING

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Our team helps to sell Dippin' Dots in order to contribute to our school's VEX community. The money we raise is used to help buy our parts, along with the parts of the VEX IQ program, in addition to signing up for tournaments. We are able to learn not just robotics skills, but strengthen our team dynamic and our people skills.



# DEFINING THE FUTURE

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The future belongs to us!





# PAST V.S. PRESENT

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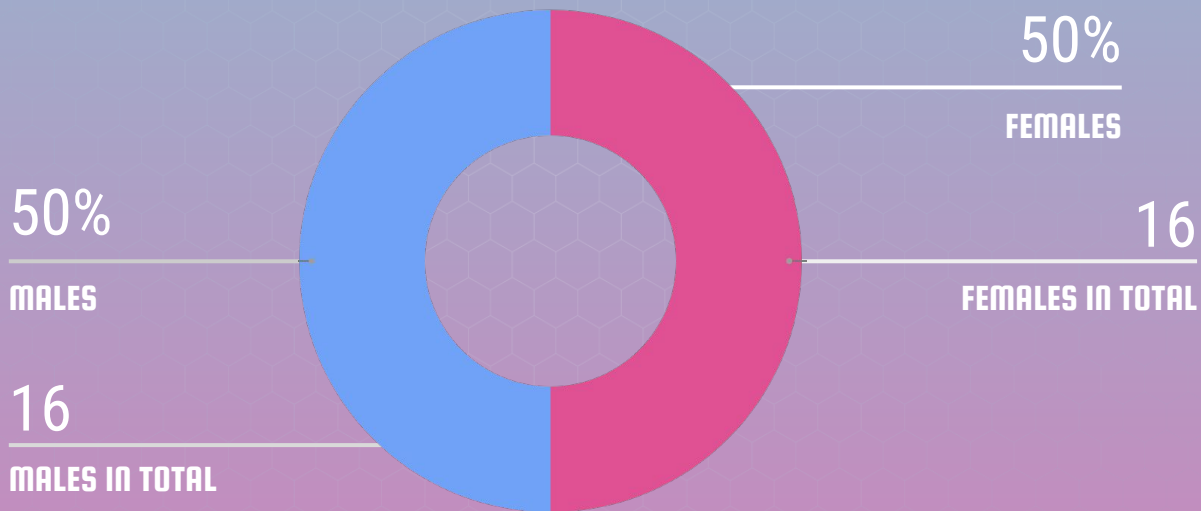
## PAST

The STEAM industry has always been full of diverse minds, each with their own way of thinking. Throughout the 1900s, there has been one major problem that was prevalent in the business. Where were all the women? In 1976, 31% of men wished to major in STEAM, compared to the 17% for women.

## PRESENT

Now we are pleased to say that the number of women in the area field has increased dramatically and is still increasing. Take our program for example; we have many hard-working girls that help to make our program to excel an astounding amount.

# OUR PROGRAM AS OF THE 2019-20 SEASON





# OUR MENTOR

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Reminding us that we can  
achieve anything!

## OUR MENTOR: Mrs. Lund

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Ever since the beginning of the season, our team's role model has always been our robotics coach, Mrs. Lund. She has always inspired us to reach for the stars and dream bigger! As someone who has always been passionate about STEAM, Mrs. Lund strongly supports what the Girl Powered Initiative stands for. In her opinion, Girl Powered means recognizing that girls can accomplish *anything* and that they are a significant part in having a well-rounded program. Mrs. Lund is not only confident girls can make a big impact in the present, but she is also confident they will also do so in the future. She believes that the field of STEAM is "so awesome", and girls are just going to make it much better.





**“Starting the program five years ago with only two girls was shocking because girls are so capable in STEM. It’s been great to see the number of girls have increased to fifty percent of our program now.”**

*Mrs. Lund*





We hope to create an **inclusive** environment with both females and males **equally represented**.

Where anyone can discover the **magic of STEAM**.

Where **anyone can do anything** they're passionate about, **regardless of gender**.

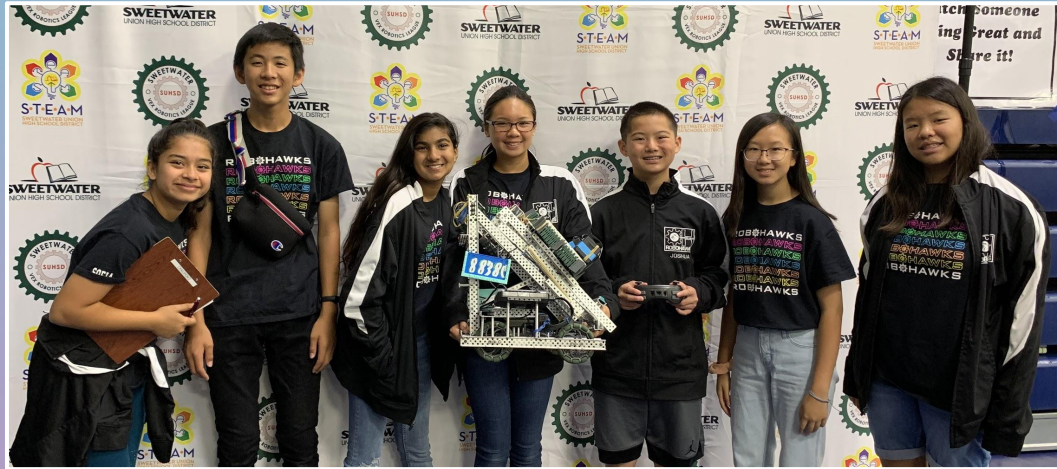
Where everyone make a **change**.

We hope to take part in “**Redefining the Face of STEM**”.

THIS IS OUR *legacy*.



# Credits



**Title of Submission:** A New Legacy

**Team Number:** 8838C

**Entrants:** VanPhuong Nguyen, Sofia Ahmed, Ayla Kailiponi, Grace Lin, Diya Malik, Marcus Shih, Joshua Yang