

WE ARE GIRL POWERED

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> Golden Jags Team 5081F

When our team began last season we never realized the capability that we had in these challenges. We started off going to competitions for the fun of it, thinking that we wouldn't win or make it as far like other teams did. We never lost hope or gave up. Little by little, we improved significantly at each competition until we achieved our goal of winning. The phrase that kept us motivated is girl powered. It influenced us to work hard so our expectations are high enough to win at every competition this season. The phrase girl power has allowed us to succeed and brought us to the point we are right now.



At the GirlPowered convention in Worlds 2018

In order to find the perfect dynamic, our members have attempted many different roles to find what we are best at. Sofia started as a builder but now has found her strength in designing (design notebook) and driving, Ria started in building and continued her passion for building and was also introduced into programming and found a love for coding.Valentina decided to begin with driving, as her passion grew for driving her knowledge also increased for programming. Emilee started as programmer but instead evolved a passion for building and design. Overall we have our own strengths but we all contribute to the team in all the work that we complete. Throughout this experience, we have learned to step out of our comfort zone and expand our knowledge.



"Programming interest me because it allows me to map out every possibility and outcome the robot can achieve. This helps me and my team strategize for skills and teamwork matches. While, observing how to robot takes commands"

-Ria (Programmer)

"I enjoy building because I like to see what works and what doesn't work and finding out why and then improving on that."







"Driving is a passion of mine because it gives me the ability to be in control of the robot to do specific things and in the end it's fun to see how everything works"

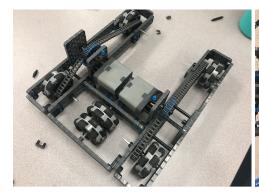
-Valentina (Driver)

"Doing the notebook has always been a way for me to completely understand all factors of the robot, program and strategy"



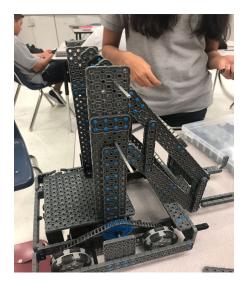
-Sofia (Notebook)

When you have a team there will always be someone with a different perspective and that's what makes our team succeed. Having different perspectives of the robot design and the engineering process will lead to various amount of ideas. Ideas to solve a problem, to make improvements, or modifications. The design will then be a mix of everyone's idea resulting in an amazing design that the entire team participated in. Having all these idea can lead to conflict but our team helps each other and listens to every person's idea. The chemistry and the bond in our team is very strong. We all understand each other and know how to cooperate with one another. The diversity of perspectives makes our team stronger and expands our ability to succeed. Not only do we help are we able to see different perspectives, but also we are an inclusive environment and all take time to learn about every aspect. This allows us to work mainly in areas we understand and feel confident in doing.



Base of our Robot

Final Arm of our Robot



First Arm of our Robot



Gear Ratio for Final Arm

As a team we have struggled and succeeded in many aspects of the challenge and our experience. For example, this season many of our team members graduated, so our team had to adapt to find out who could take over our previous members roles. It was difficult but this also helped us grow into the team we are and allowed us to succeed at competitions at the highest potential. This year we have also struggled with programming. The program would have a tendency to skip and reread lines. It took us while to realize it was something that we couldn't control, this also lead us to switch and learn a new program. This was another struggle but allowed our skills score to become an a high position on the world rankings for the time.



Design Award at K.L.E Next Level Tournament



Excellence award at First Annual G Holmes Braddock Cambridge Competition

One of our biggest role models we have is Reshma Saujani. She is the creator of Girls Who Code. Girls who Code is a nonprofit organization whose sole purpose is getting rid of gender barrier in the STEM fields. She influenced all of us to become interested in STEM and robotics. She once said "Fail fast, Fail Hard, Fail often." This changes our perspective in competitive robotics. Her quote taught us when we fail we get back up and try again harder until we achieve our goals. It's normal to fail on your first try as long as you don't lose hope. This has helped us work together because we all learn from a mistake and solve problems together. She will always be a role model to us to never underestimate ourselves or others.

