Tiffany, Allyson and Pippa Year 7 Kristin Middle School



TEAM SPIRIT (Spirit is our robot)





2919M is a small but devoted robotics team! Our roots are in Kristin, a school in Albany, Auckland.

We are Kristin's first all girl's robotics team!! All three of us have started our robotics lives differently, but we love robotics all the same. It's the first year in robotics for all of us, and we are taking 'Baby Bot's First Steps', the first step in robotics! That means we will try hard, and when we fail, we'll come back again and try some more.

Builder, Coder, Driver. That's us! In the team we have all three of them... But we all have two roles out of the three. What's good is that any two of us can work together really well. That's what we're good at... brainstorming, sharing ideas and then putting them into action, as a team!

GALLERY: https://vexchallengespirit2919m.smugmug.com/VEX-Challenge-Girl-Powe red/n-zt2fif/



Tiffany ~ In the beginning...

I first did plain LEGO since I could walk (maybe, sort of...), and I was introduced to robotics in Year 6 in electives. I enjoyed the building part of it best, and it works kind of like LEGO. I always did vehicles, and LEGO helps you to have better spatial thinking, which is essential to robotics. It also teaches you problem solving when you need to brace, for example. Another great thing is that while LEGO is great for many of The VEX IQ stuff, VEX IQ can do a lot more, which I couldn't do before. That meant we could do more stuff. Like better gearing, more flexibility to build, challenging code All sorts of great stuff!!







WEX WINS : D Why? You can do more! The code is more challenging, too!

Allyson ~ In the beginning...

I first saw robots at the family picnic, so I came to robotics mainly for the coding, though now I'm interested in becoming a great robot driver.

I enjoy robotics for many reasons, such as knowing that I will be able to have a basic idea in coding/robotics in the future when technology is more prominent!

At first I was all confused with the building and stuff like that, but I got it eventually with practice!! It is also challenging yet entertaining in multiple points of view. People may think it seems boring but it's not! Seriously, it's not! Like, not at all. Not at all...; Yeah! I like robotics, you must try it too!







Pippa ~ In the beginning...

I first started robotics at the start of this year because when I was little my Dad was in charge of students building VEX robots at MAGS (Mount Albert Grammar School). I was constantly around VEX competitions and so when my dad and I found out there was robotics offered at Kristin I immediately signed up!



Tiffany ~ What we enjoy...

I enjoy ideas coming to life, because ideas into reality can be easily achieved using the VEX IQ kit. I also like building stuff. And also i like how anything can be a solution to anything...

You can repurpose any piece to be something else! Such as, an elastic band can be the power of the tray on Spirit, without it the tray cannot function... This is just a creative idea we came up with to repurpose an elastic! And how any sort of crazy idea can become a reality, with Robotics. Simplicity is however generally the best solution!





Allyson ~ What we enjoy...

Building stuff (DIGITALLY), coding I also like robot fighting stuff like Real STeel and etc, even though that's probably a long time later like when I'm forty or thirty or something. Maybe, just maybe, it could be one of us who manages to create advanced combat robots!



Pippa ~ What we enjoy...

I really like robotics because it is something I have never tried before and I think is really cool. I learn a lot every day and I am always getting used to the ways of robotics and the ways of building them. At first it was totally confusing and I didn't understand anything Tiffany and Allyson said but then I got used to it and now I love it!





The Journey...

Biteable Video made with Biteable.com

Thanks, Biteable!

Link: https://youtu.be/qpQt3rhRhp4

This video is a product of the amazing teamwork and planning all year! This video is a summary of our robotics journey!



Palmerston North

We went all the way down to Palmerston North, to take on the VEX IQ Nationals. Unsure of what to expect at first, now we know! After a whole bunch of TECHNICAL DIFFICULTIES PLEASE STAND BY, we were off and away! This was certainly a test of not only our skills, but our co-operation.

Spirit, our robot and team, holds true to its name. We went down fighting to the last second (which paid off, I might add...!). In our view, sportsmanship and winning are equal, and were so amazed at the amazing designs we saw! We will definitely be back next year, but this time, ready for a rematch!! Unfortunately the robot was too big when it lifted its arm (was too big by 4 inches). This meant we had to remove the tray and the robot became unbalanced. This resulted in the robot being unable to lift its arm, because if it did,the robot would fall on its face, ending the game for us as the robot was now unusable. So, we used our AMAZING ideas to rebuild the robot in 10 minutes!! WOOHOO!



TECHNICAL DIFFICULTIES: We has from...





Pros and cons: Our evaluation

ALLYSON

Driving robots around and scoring (and terrorizing the other robots, heh heh)

Learning how to code. Frustrating but SOOO worth it when you see everything comes together

THE EPIC MOMENT WHEN YOU BALANCE THE BRIDGE Being with your team

Just one con... It's close to impossible to separate pieces... I broke a nail...

TIFFANY

Watching the robot come to life (GIVE THE MONSTER LIFE!!!!) after you've built it and downloaded the code :D When you tip the tray ... :D the tray was soo hard to build but so worth it!

Feeling of satisfaction as we score When people say: How does the robot work?? THEN I get to explain it!!

Con:

Really sad when the CONTROLLER runs out of charge... and there's no spare batteries, unlike the brain, and you can't use someone else's

Goodbye Spirit

It's sad to see Spirit go, our hard work of a year. We spent hours, staying late up at night, building, researching, coding. spirit is the product of a combined effort. I need to give a huge recognition to the rest of my team in spirit's journey. They have all been working tirelessly alongside each other. Without you, spirit would never have been created. Thank you. And thank you spirit. You have united the team. You have taught us how to work together and you have been the key to our success.

But as we say goodbye to her, a new robot will rise from the ashes. Spirit's successor. Curiosity. Our 2017 robot. Spirit's soul lives on.

-Tiffany



CREDITS

MEMBERS OF THE TEAM

Tiffany Ho (Team Leader, Builder, Driver)

Allyson Francisco (Coder, Builder)

Pippa Plummer (Builder, Driver)

And thanks to Mr Allen, our Robotics teacher, Jamie Davis, Biteable, Kiwibots, VEX itself, sponsors and everyone who contributed to making Spirit a reality.

This presentation was made using Google Slides.

And thanks to the parents too! Without your support we wouldn't be where we are. Thanks for giving help and drive are on to Palmerston North!!!