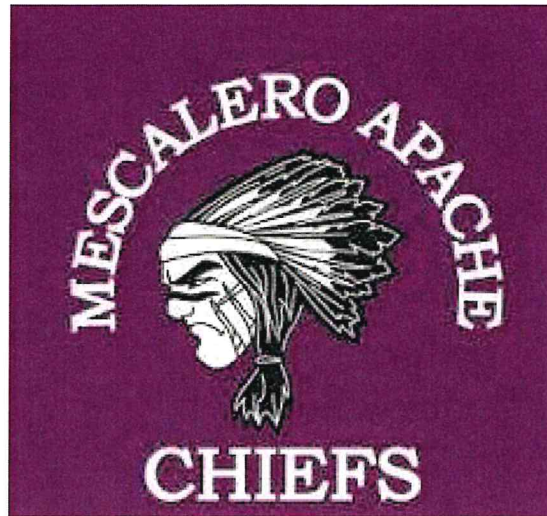




2213A

Engineering Design Notebook



Team Members:

Kameryn Chino

Angel Enjady

Caydence Palmer

Damaris Lent

Elijah Lester

Jacoby Ortega

Team Photos



← January 15 2022 Phoenix
Arizona Drone competition
← we were awarded The
Judges Award.

Here is a photo →
of us with the boys →
team here from
Mescalero as well.



Team Description

Nikdagute? Shi Caydence Palmer huunsye, Shi Angel Enjady huunsye, and Shi Kameryn Chino huunsye. This is a way to say "How are you? My name is Caydence Palmer, Angel Enjady and Kameryn Chino. We are currently two sophomore's and one junior at The Mescalero Apache High School in South Central, New Mexico. As a team we work together when it comes to situations or just in general instead of assigning a part to one person. In total we've been to one competition due to being one out of two teams in New Mexico. We hope you get to experience our team work and personality during this time.

Caydence and
Angel in Abilene,
Texas going →
to a VEX
Robotics Competition
as cheerleaders!



10

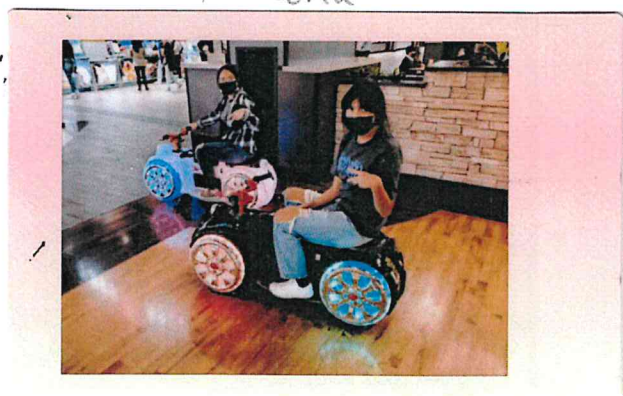
11

Kameryn
and
Caydence



Kameryn
and Ange

Caydence and Angel after
Drone competition in Phoenix
↓ Arizona



STEM Program
↓



Our Projects

Page	Projects	Date
1	Blade Proportion	01/15/22
2	Switching out Propeller	02/10/22
3	Creating Course	02/04/22
4	Cannon and Claw	02/09/22
5	Coding	02/17/22
6		
7		
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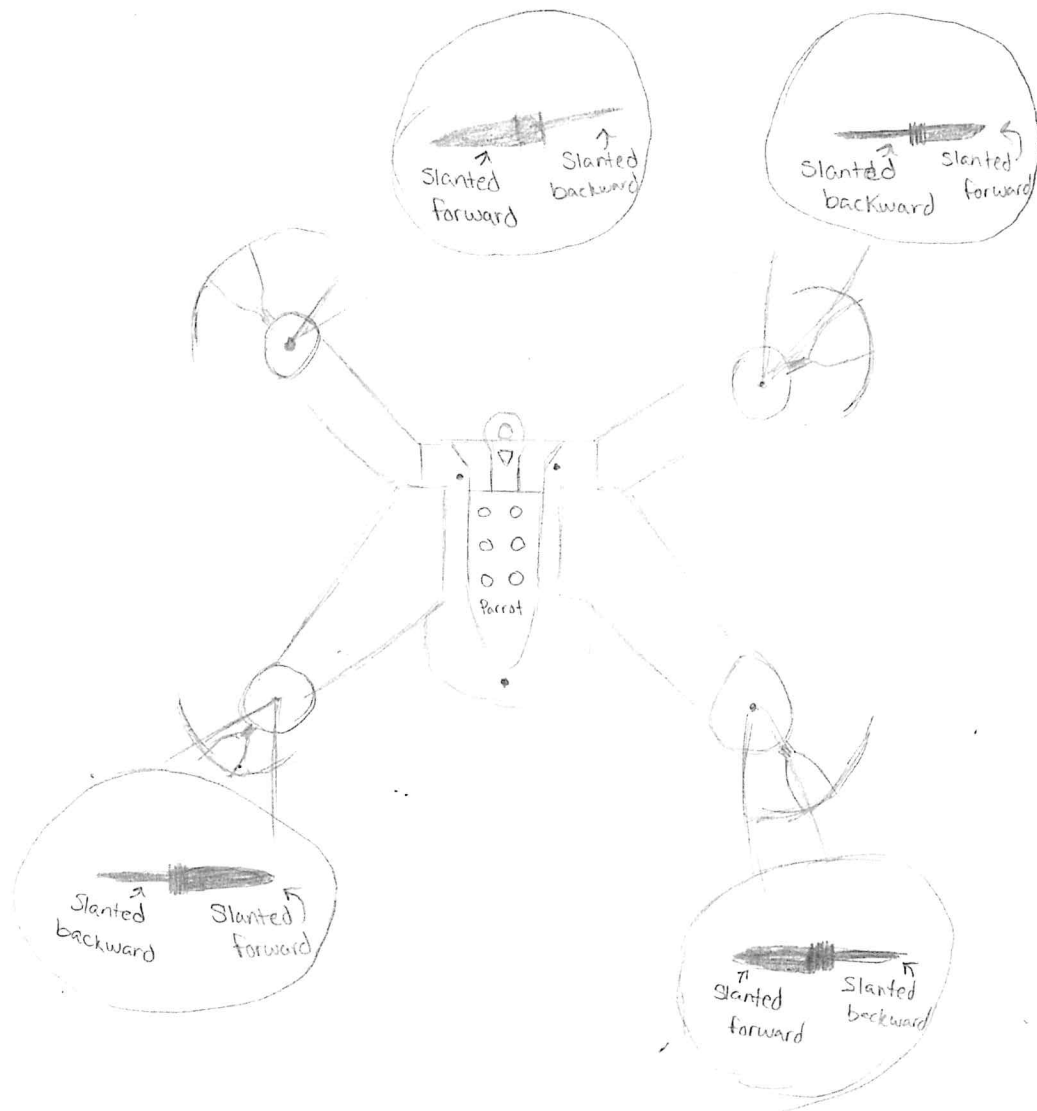
veryn
angel

n

Project: Blade Proportion

1

make sure blades
aren't bent!



During competition we had issues getting our drone to lift off the ground. To solve this problem we had to communicate with another team on this issue. Turns out it all relied on the propellers weight and placement.

Designed by: Cayden
Palmer

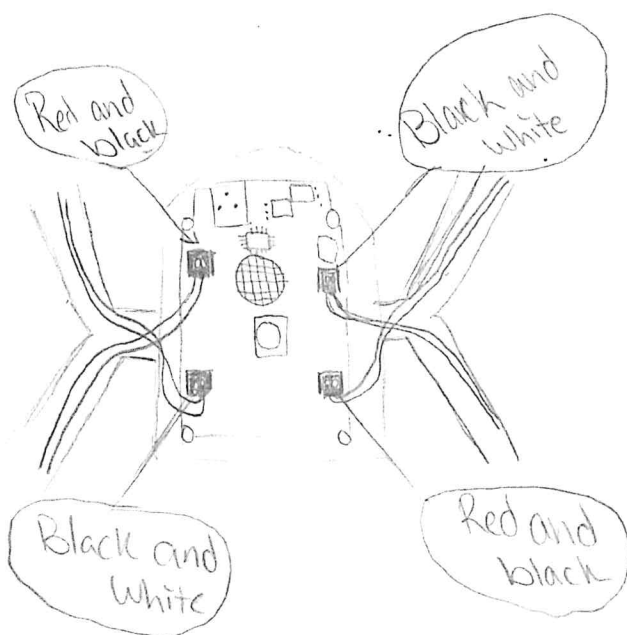
witnessed by: Angel
Enjady

date: 01/15/22

Project: Switching out Propeller

2

While pulling out
Proceed with caution!



During a practice session our drone's propeller wasn't going as fast as the other propellers. So then we took the drone apart to take out the wires to replace the propeller.

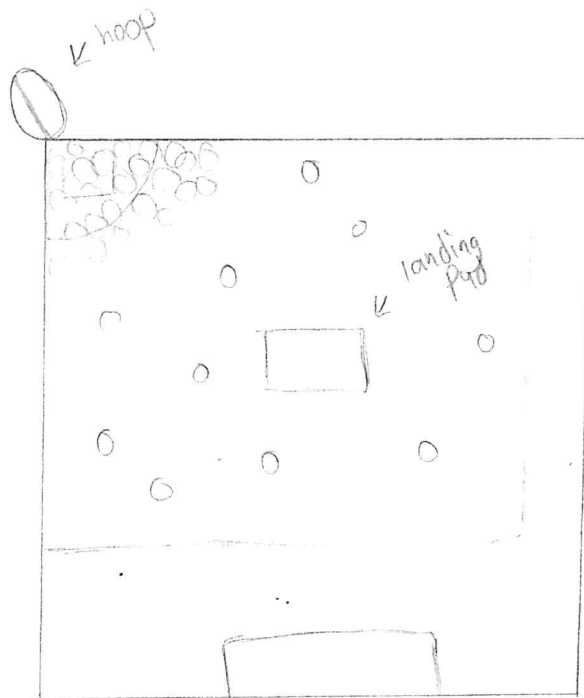
Designed by: Caylene
Palmer

Witnessed by: Angel
Eljady

Date: 02/01/22

Project: Creating Course

3



Robotics
Side

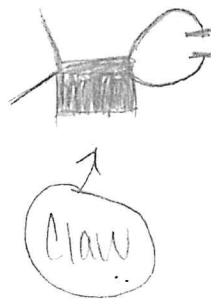
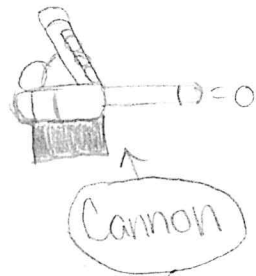
While in school our course is combined
with the VEX Robotics team as well. So
while working with them we left a space to
fly through a hoop and hover the balls.

Designed by: *Cylerne Palmer*

Witnessed by: *Angel* Date: *02/04/22*
Enjady

Project: Cannon and Claw

4



While working with the claw and cannon we
had a bit of struggle. Later on we played with
them a bit more and had fun while doing it.
We don't really use them for competition.

Designed by: Caydence
Palmer

Witnessed by: Angel
Enjady

Date: 02/09/22

Project: Coding

5

Connect: Mambo_850408

RUN

EMERGENCY LAND

Blocks

Getters

Mini Drone

2

Events

Variables

Logic

Loops

Math

Variables

Functions

when Mini Drone battery is low

take off Mini Drone

fly Mini Drone forward for 6 seconds at 45 % power

10

rotate Mini Drone forward

rotate Mini Drone 90 degrees clockwise

fly Mini Drone backward for 7 seconds at 45 % power

land Mini Drone

when Mini Drone battery is low
land Mini Drone

when Mini Drone battery is low
cutoff Mini Drone

While working on our coding for the competition coming up we had a bit of difficulty connecting our drone to the laptop. After solved we played with the code and drone for a bit.

Designed by: Cayden
Kellmer

Witnessed by: Angel
Crijan

Date: 02/17/22



CERTIFICATE OF PARTICIPATION

Is Presented To

TEAM 2213A
MAS CHIEFS

Recognizing their efforts and accomplishments at the
Harmony Public Schools Houston RADCC Drone Competition on February 19, 2022

AERIAL DRONES

Qualification Match List

Harmony Public Schools Houston RADC Drone Competition



Match	Field	Time	Red 1	Red 2	Blue 1	Blue 2
Q1	Field 1	Sat 10:00 AM	21908X	2213B	56864A	29914B
Q2	Field 2	Sat 10:06 AM	9999A	7340B	6455A	49599A
Q3	Field 1	Sat 10:12 AM	74454A	74454B	2213A	9999B
Q4	Field 2	Sat 10:18 AM	7340A	21908Z	29914A	3080B
Q5	Field 1	Sat 10:24 AM	41208B	41208A	56864B	1010A
Q6	Field 2	Sat 10:30 AM	6455B	3080A	2213B	9999B
Q7	Field 1	Sat 10:36 AM	56864B	3080B	9999A	21908X
Q8	Field 2	Sat 10:42 AM	6455A	74454A	6455B	41208A
Q9	Field 1	Sat 10:48 AM	56864A	2213A	41208B	29914A
Q10	Field 2	Sat 10:54 AM	1010A	7340B	7340A	74454B
Q11	Field 1	Sat 11:00 AM	49599A	29914B	21908Z	3080A
Q12	Field 2	Sat 11:06 AM	2213B	41208B	9999A	7340A
Q13	Field 1	Sat 11:12 AM	9999B	21908Z	7340B	41208A
Q14	Field 2	Sat 11:18 AM	3080A	2213A	21908X	1010A
Q15	Field 1	Sat 11:24 AM	74454B	56864B	29914B	6455A
Q16	Field 2	Sat 11:30 AM	49599A	3080B	6455B	56864A
Q17	Field 1	Sat 11:36 AM	29914B	29914A	74454A	1010A
Q18	Field 2	Sat 11:42 AM	56864A	7340A	41208A	3080A
Q19	Field 1	Sat 11:48 AM	6455A	9999B	3080B	41208B
Q20	Field 2	Sat 11:54 AM	9999A	6455B	21908Z	2213A
Q21	Field 1	Sat 12:30 PM	21908X	29914A	49599A	74454B
Q22	Field 2	Sat 12:36 PM	2213B	7340B	74454A	56864B

2213A

MAS Chiefs

MESCALERO APACHE SCHOOL

Mescalero, New Mexico, United States