Game Analysis

Action	Criteria	Match Points		
		Auto	TeleOp	Endgame
Navigating	Robot under 12 inches to go under the truss (10 inches) (Check the documentation) Robot has to be under the truss height	Pre-load one with one purple pixel, one yellow pixel, and one drone.		
Deliver Pixels	We can get more points with team prop.	Time: 30 seconds	Time: 2 minutes	Time: Last 30 seconds of TeleOp.
Purple Pixels	10 of them	Place in Spike Marker with Team Prop: With Team Prop - 20 points Alternate options: White Pixel - 10 points	Make mosaic (3 same non-white pixels or 3 different non-white pixels) - +10 Points Set points - +10 Points	
Yellow Pixels	10 of them	Place in Backdrop with Team Prop lined: With Team Prop - 20 points Alternate options: White Pixel - 10 points		
Green Pixels	10 of them	N/A		
White Pixels	64 of them	Additional time after placing Purple and Yellow 1) try to park for 5 points,		

	2) place in backdrop or backstage3) pushing multiple white pixel to backstage		
Drone	N/A	N/A	Try the drones in the endgame instead of pixels.
Robot	Parking - 5 Points	N/A	Hang from rigging - 20 Points Alternative: Parking - 5 Points

Mechanis m	Priority	Criteria
Intake	Must Have	Able to intake pixels at different angles (fast rotating compliant wheels)

	Nice to Have	 A quick intake to outtake transfer (possibly when robot is moving)
	Explore	 Using encoders to detect pixel angle and adjust based on that Make the intake and outtake in one mechanism instead of two separate mechanisms
Outtake	Must Have	Grip/release pixels
	Nice to Have	Extensions to stack higher
	Explore	Being able to rotate the outtake when at different positions
	Must Have	
	Nice to Have	•
	Explore	•
	Must Have	•
	Nice to Have	•
	Explore	•

1	Width	mm	The width and length dimensions should be much less than the given
2	Height	mm	Top must be sufficiently lower than the
3	Length	mm	
4	Weight	kg	
5	Cost	USD	
6	Collection Rate	sec/pixe	
7	Driving Speed	sec/pixe	
8	Vertical Reach	mm	
9		mm	

- 1. EasyOpenCV Ajay
- 2. Odometry/Roadrunner Harsh
- 3. Drivetrains Dhruv
- 4. Power Transmission Kayan
- 5. Intake/Outtake Kavin
- 6. Arms/Transfers Srilakshminath