Prototype Field Test

Design Team: *Dr. D's #1 Prototypers*   Product: *eDragster Proto-1*   Date: *4-6-2022*

1. List each subsystem and test. Did it pass?

	Subsystems	Pass	Notes:
1	Battery Pack	Yes / No	12.3 v reading at start
2	Motors	Yes / No	
3	Motor Controller	Yes / No	
4	Wheel / Axle	Yes / No	Front wheel slight wobble
5	Chassis	Yes / No	

2. How is system performance measured?

Performance Indicator(s)	Measured Variables	
	Unit	Instrument
Speed 20m run	Seconds	Track Timer
Damage	# count	Observation

3. Collect Data on these specified variables/indicators.

Trial	Date/Time	Measured Variable(s)			Change Notes
		Time(s)	Damage	3	
1	4-6	2.2	0		
2	4-6	2.1	0		
3	4-6	1.8	0		changed increment to .30
4	4-7	1.9	1		front wheel loose
5					
...					

4. Conclusion: Analyze data making comparisons of actual and predicted performance.

Predicted performance for this design is 1.44 seconds. The average time for the tests was 1.95. The prototype was 0.51s slower than predicted.

5. Recommendations: What are the next steps?

1. Continue to adjust increment.

2. Try a different tire.

3. Fix front wheel