



# DESIGN REPORT RUBRIC

Version Date: 11/16/2023

School Name:

Team Name:

Kart Number:

Component	Poss. Pts.	Score (%)	Score (pts.)	Comments
<b>Report Structure &amp; Format:</b>	15		0	
<i><b>Introduction</b></i> : The introduction draws in the reader, highlights what will be discussed in the report, and excites the reader to read the report.				
<i><b>Main Body</b></i> : The main body is well-organized, divided into logical sections, and easy to follow. The key points in each section are clear, intuitive, and connected to form a cohesive story within the section and the overall report.				
<i><b>Conclusion</b></i> : The conclusion summarizes the key points and leaves the reader energized to share the report with others.				
<i><b>Pictures, diagrams, charts, graphs, and images</b></i> : used throughout the report in support of, or to substitute text to more effectively and efficiently convey information to the reader. Their placement is logical, their purpose is clear, and they are easy and intuitive to interpret and understand.				
<b>Design Process:</b> A sound engineering process was used to optimize performance of the kart. (define requirements, research options & down-select, design & model expected performance, build, test, iterate, summarize predicted vs. final actual performance)	75			
<b>Battery &amp; BMS (25 pts)</b>				
<b>Motor &amp; Motor Controller (15 pts)</b>				
<b>Powertrain Integration (20 pts)</b>				
<b>Mechanical Systems Design &amp; Kart Tuning (15 pts)</b>				
<b>Innovation/Creativity:</b> - The team explored a wide breadth of potential improvements, including unique changes to their kart that had potential to significantly improve its performance. - The team devised clever and creative ways to predict and test potential improvements within their known capabilities and constraints. - The team implemented an innovative change to their kart that significantly improved its performance.	10		0	
<b>TOTAL</b>	<b>100</b>	<b>---</b>	<b>0.0</b>	0%