

## Grading Criteria for Assignment 1: Design Report on Rocket Project

<b>Demonstrates awareness of audience and purpose</b>	<b>25</b>	
<input type="checkbox"/> Provides key information regarding the project goal, the design approach, and the design solution in the executive summary		
<input type="checkbox"/> Employs appropriate technical style and tone for designated audience and genre		
<input type="checkbox"/> Includes appropriate information and detail in the body of the report for designated audience and genre		
<input type="checkbox"/> Summarizes and evaluates performance results in the conclusion		
<input type="checkbox"/> Includes appropriate information in appendices and explicitly refers to them in the report		
<b>Demonstrates ability to present technical information</b>	<b>25</b>	
<input type="checkbox"/> Provides complete and logically organized technical description of rocket, including performance results		
<input type="checkbox"/> Uses specific dimensions, precise language, and correct terminology		
<input type="checkbox"/> Explains the effect of each part on the behavior of the rocket in terms of the physics of the rocket launch and flight		
<input type="checkbox"/> Includes figures that effectively highlight features of the design, including dimensioned figures of the rocket and fin design parameter		
<input type="checkbox"/> Uses figures and tables effectively to show data that informed design optimization		
<b>Demonstrates understanding of design practices and ability to apply specific design methods</b>	<b>25</b>	
<input type="checkbox"/> Summarizes design problem and correctly identifies parameters and constraints		
<input type="checkbox"/> Defines a parametric model for the rocket with 3 degrees of freedom		
<input type="checkbox"/> Explains test matrix and procedures for optimizing parameters		
<input type="checkbox"/> Presents evidence of following a systematic parametric design process and explains how data were interpreted to identify optimal values		
<input type="checkbox"/> Provides quantitative comparison of final performance to predictions based on previous experiments		
<b>Demonstrates ability to follow document specifications and meet requirements</b>	<b>15</b>	
<input type="checkbox"/> Organizes content according to specified subsections and follows appropriate conventions for each (content, tense, grammatical structure)		
<input type="checkbox"/> Follows document format instructions (including memo format, fonts, margins, length, and labeling of figures and tables)		
<input type="checkbox"/> Proofreads and corrects all errors (spelling, grammar, punctuation)		
<b>Report Subtotal</b>	<b>90</b>	
<b>Demonstrates ability to document team design process (wiki)</b>	<b>10</b>	
<input type="checkbox"/> Shows evidence of collaboration, exchange, and contributions from all team members		
<input type="checkbox"/> Documents design project work, including ideas, data, and other requested content		
<b>Report + Wiki Total (40% of final report grade)</b>	<b>100</b>	