

Criteria	What to Look for While Judging – Engineering Projects	Points
<b>Problem Identification</b>	<ol style="list-style-type: none"> <li>1. Several questions are asked that help define the problem</li> <li>2. Specifications and Constraints have been identified</li> <li>3. Research has identified previous solutions to the stated</li> </ol>	<b>20</b>
<b>Planning</b>	<ol style="list-style-type: none"> <li>1. Several sketches of possible solutions are present</li> <li>2. The design process shows an iterative and systematic approach that is clear and logical</li> <li>3. A final drawing of a prototype is present that includes: multiple views, dimensions, parts list, and tools</li> <li>4. Assembly instructions are present</li> </ol>	<b>25</b>
<b>Prototyping</b>	<ol style="list-style-type: none"> <li>1. A prototype built from the final plans is present</li> <li>2. The prototype closely matches the plans</li> <li>3. Prototype has been used to test the feasibility of the proposed solution</li> </ol>	<b>20</b>
<b>Analysis</b>	<ol style="list-style-type: none"> <li>1. Data is present and has been used to support or dispute the effectiveness of the prototype as a solution to the stated problem</li> <li>2. Graphs or charts are present that show the collected data</li> <li>3. Data is used to propose improvements or changes to the prototype</li> <li>4. Improvements to the prototype have been suggested that reflect the data obtained while testing</li> </ol>	<b>20</b>
<b>Communication</b>	<ol style="list-style-type: none"> <li>1. The design process has been documented in a journal or notebook and that documentation is present</li> <li>2. Data has been used to provide evidence that the solution to the problem has satisfied the set criteria and specifications</li> <li>3. Evidence is used to support the merits of the design solution</li> <li>4. All information is presented in a clear, concise, and neat format</li> <li>5. Student is able to engage in effective conversation regarding their design process</li> <li>6. TEAMS ONLY: Each member of the team has made a clear, outlined contribution to the project</li> </ol>	<b>15</b>
	<b>100</b>	

Total Points Possible