Rubric: Georgia Tech's High School Inventure Challenge

Team Name: ___________________________  Evaluated By: ___________________________  Date: ___________________________

Instructions: Please mark the most appropriate scoring level for each project criteria area based on the products presented and student interview (if possible).

<table>
<thead>
<tr>
<th>Criteria Scoring Levels</th>
<th>No</th>
<th>Attempted</th>
<th>Partial</th>
<th>Good</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Engineering Design Project Criteria**

1. **Practicality**
   1a The critical features of the product are identified and explained
   1b The problem or need is clearly defined
   1c The project addresses an actual problem or need that exists

2. **Knowledge Base**
   2a The relevant science behind the final product is explained clearly
   2b The student(s) explained how the science helped them create their project

3. **Design Based Thinking**
   3a The student(s) clearly used an iterative design process to improve prototypes
   3b Test data from initial prototypes informed the next round of testing
   3c The project identified ‘next step’ issues for the project

4. **Creativity**
   4a Alternatives to the product that are currently available were addressed
   4b The final product is unique

5. **Marketability**
   5a There is a market for this product
   5b The student(s) has a clear understanding of customer needs

6. **Social Responsibility**
   6a Potential ethical issues of the project have been addressed
   6b The design was created with clear consideration of environmental sustainability
   6c The student(s) optimized available resources to create the project

7. **Enthusiasm & Communication**
   7a The student(s) communicated the project process and final design clearly
   7b The student(s) has clear enthusiasm for the problem and project

8. **Manufacturing (highest score in this category receives 2017 TAG Manufacturing Specialty Award)**
   8a The entry includes a clear description of the manufacturing steps needed to produce the product.
   8b The student(s) explained how product components could be obtained to support the product’s manufacture.
   8c The entry describes how the product’s design supports easy, low cost manufacture.

Total Earned Points (Out of 80) ___________