

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).

Engineering Design Project Criteria		Criteria Scoring Levels				
		No 0	Attempted 1	Partial 2	Good 3	Excellent 4
<i>1. Practicality</i>						
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					
<i>2. Knowledge Base</i>						
2a	The relevant science behind the final product is explained clearly					
2b	The student(s) explained how the science helped them create their project					
<i>3. Design Based Thinking</i>						
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					
<i>4. Creativity</i>						
4a	Alternatives to the product that are currently available were addressed					
4b	The final product is unique					
<i>5. Marketability</i>						
5a	There is a market for this product					
5b	The student(s) has a clear understanding of customer needs					
<i>6. Social Responsibility</i>						
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					
<i>7. Enthusiasm & Communication</i>						
7a	The student(s) communicated the project process and final design clearly					
7b	The student(s) has clear enthusiasm for the problem and project					
<i>8. Manufacturing (highest score in this category receives 2017 TAG Manufacturing Specialty Award)</i>						
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) _____