Title:

Engineering Challenge

July 20, 2022

Problem Statement: Write the problem statement in your own words and interpretation. What are you trying to achieve? What is being learned through this challenge?

We are trying to achieve a bottle rocket as far as possible. We are learning aerospace engineering throughout the challenge.

Materials: List the materials given (if any).

Cardboard, hot glue, construction paper, 2 liter bottle

Approach: Write a description of your plan to achieve the goal of the problem statement. Add drawings/sketches/CADs if possible.

I used hot glue to glue on the papers to form the rocket shape on the bottle. We then added the wings on the sides of the rocket in order to catch air to go further. In addition to the wings making the rocket stay stable in the air.

Solution: What is your solution to the given problem?

We made sure the rocket was light in order for it to go as far as possible. Although we made sure it was at a stable form in order to not tip over in the air and to go in a spiral.

Analysis: After testing, did it achieve your goal? Either way, what could you have done better? If given more time/materials, what would you do differently?

I would improve in aerodynamics in my project due to failing at what I initially tried to accomplish.

Images:

Copy of BOM Example

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.3:A4 | fx | cardboard

	A	B	C	D
1	**Part Name**	**Part Amount**	**Part Price**	**Part Link (if needed)**
2	2 Liter bottle	1	$2	
3				
4	cardboard	6	$3	
5	construction paper	2	$1	
6	hot glue stick	1	$~0.16	
7	duct tape	3 feet	$~0.12	
8	hot glue gun	1	$10	
9