## PROJECT BASED DESIGN CHALLENGE RUBRIC

*This is an example of a project based rubric that could be used for a variety of Engineering Design Project Challenges.*

Engineering Design Notebook Requirements

Your Team Information \_\_\_\_\_\_ 1 pt

Team Project Timeline and Duty Assignments \_\_\_\_\_\_ 4 pts

Design Problem is Defined \_\_\_\_\_\_ 5 pts

Problem is Analyzed

Brainstorming for Possible Solutions

Solution Design Sketches \_\_\_\_\_\_ 10 pts

Identify a possible solution for testing \_\_\_\_\_\_ 5 pts

Pseudo code for program(s) \_\_\_\_\_\_ 10 pts

Printed Final Program Code with Comments \_\_\_\_\_\_ 10 pts

Design Sketches in LEGO Digital Designer \_\_\_\_\_\_ 10 pts

Final Budget for Design \_\_\_\_\_\_ 5 pts

Final Design Passes Inspection (fits size parameters, drop test, etc) \_\_\_\_\_\_ 5 pts

Marketing Strategy for Design \_\_\_\_\_\_ 15 pts

Who are you? What is your company name? What is your product?

Who is it for?

How many people would want or need this?

What is the estimated cost to the consumer?

Why do they need it?

Who will you pitch the product to for distribution?

Marketing Piece of some sort

Robot Successfully Completed the given Design Challenge - This can be further broken down into steps so students can get credit for partially completing the challenge. \_\_\_\_\_\_ 15 pts

Revise your Plan

\_\_\_\_\_\_ 100 pts (TEST score)