



Engineering
Merit Badge

1028

1029

Day 1 Homework: Just Roll With It - Engineer a BB-8 Droid (1)

Here is the official text of Requirement 1:

- **(Mr. Eric's homework)** Select a manufactured item in your home (such as a toy or an appliance) and, under adult supervision and with the approval of your counselor, investigate how and why it works as it does. Find out what sort of engineering activities were needed to create it. Discuss with your counselor what you learned and how you got the information.

To complete this homework, fill out the next two sheets to show the following:

Sheet 1. Define the set of requirements

- What functions should BB-8 perform?
- What features/technology will he need to perform these functions?

Sheet 2. Make a rough design schematic

- What do you think BB-8 would look like inside?
- What makes him move?
- How would you control his movement?
- How does his head stay on top?

If you want to do something else for this requirement, negotiate with Mr. Eric via email (CC your parents)



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Just Roll With It: Specify the Requirements and Required Technology

#	Design Requirement	Approach/Required Technology



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