

Completed Analyses Q1

Drive Motor Power -
Determine how much power is needed to spin the wheels and move the device. Relate this to the amount of electrical power needed.

Suspension - Find maximum force deriving from max weight and determine suspension needed.

Brakes - Find how much power is needed to bring the device to a stop. Important to prevent the device from running into people or objects and from rolling downhill.

Battery - Determine how much power the battery will need to supply.

Power consumption -
Compute the maximum electrical power consumption of system.

Solar Power with Charge Controller - Calculate how many solar panels and how much time will be needed to charge the battery.

1/31/2022