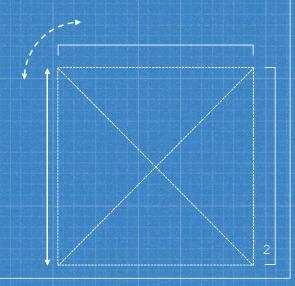


## Power Grid Project

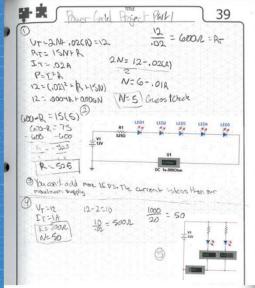
Om Patel

# Table of Contents

- Sketches, Multisims, & Theoretical Calculations
- Theoretical Maximum Power Supply Design & Calculations
- Theoretical Maximum Grid Design & Calculations
- Experimental Maximum Power Supply Measurements
- Find Redesign
- Final Grid Design
- Reflection



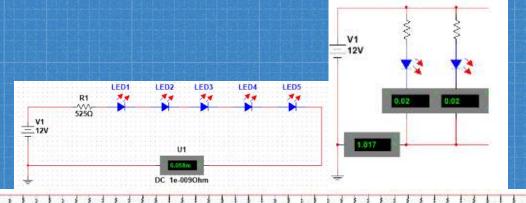
#### Sketches, Multisims, & Theoretical Calculations



The current's equal to the residence supply. Yes, you can add more LED's as you can add 5 LED's per barch gives on 250 LED's.

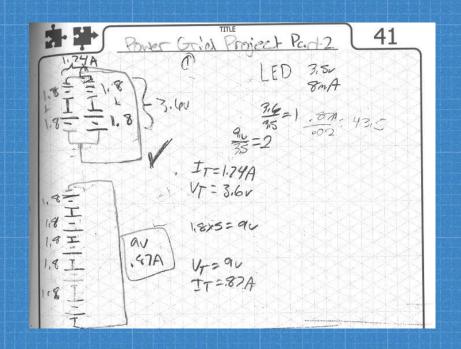
This current Frampooton with the parallel are in the greater that the parallel are in the greater than the greater than the parallel are in the greater than the gre

In this activity I practiced my skills of calculating theoretical maximum power grids. I also used Multisim to check my work.



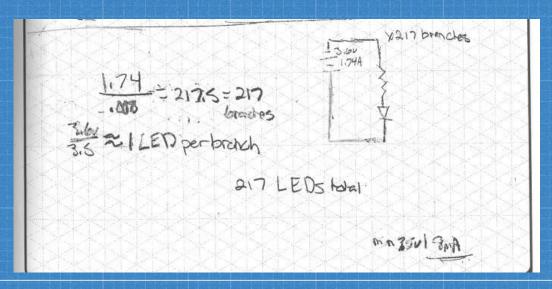
#### Theoretical Maximum Power Supply Design & Calculations

Using the minimum current and volatage for the LED to power and the generators maximum output voltage and current, I tried to calculate and desgin the maximum power supply.



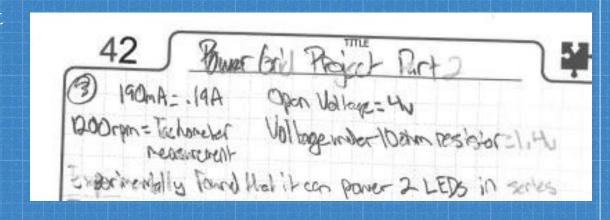
### Theoretical Maximum Grid Design & Calculations

With the power supply I designed, I tried to create a the maximal aspecified LED's minimum voltage and current. This grid will ohm resistor for each LED.



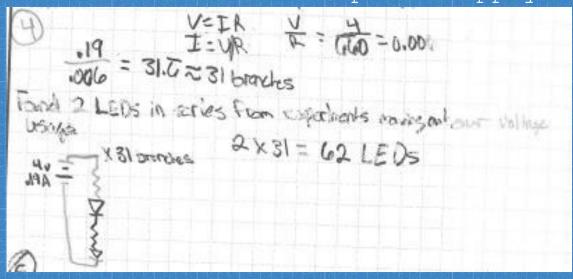
#### Experimental Maximum Power Supply Measurements

With a power supply picked and built in real life it allowed me to get measurements of voltage, current, and rpm.



#### Grid Redesign

With the voltage and current found in the experiments, I could the amount of branches and leds in a branch. Allowing me maximum number of LEDs for that power supply.



## Final Grid Design

With my calculations, I created breadboards with LEDs in a series parallel combonation. The final amount of LEDs that could light up were 62.

