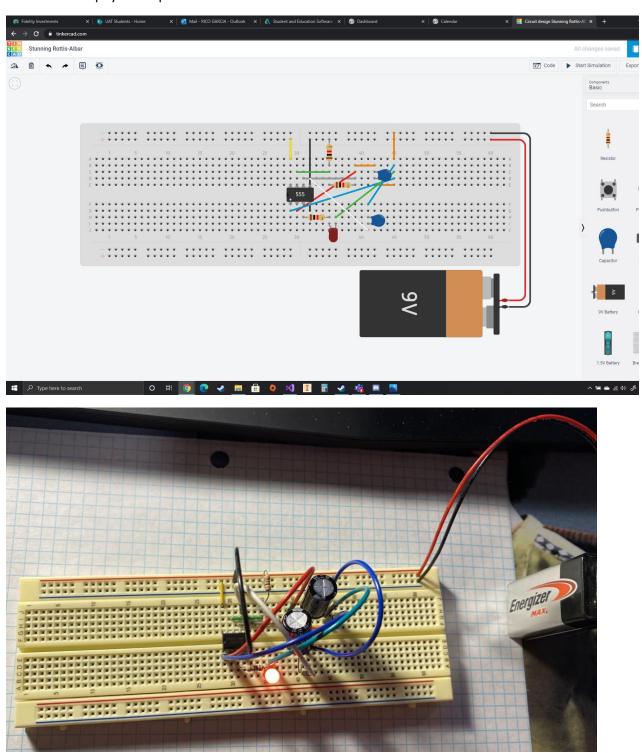
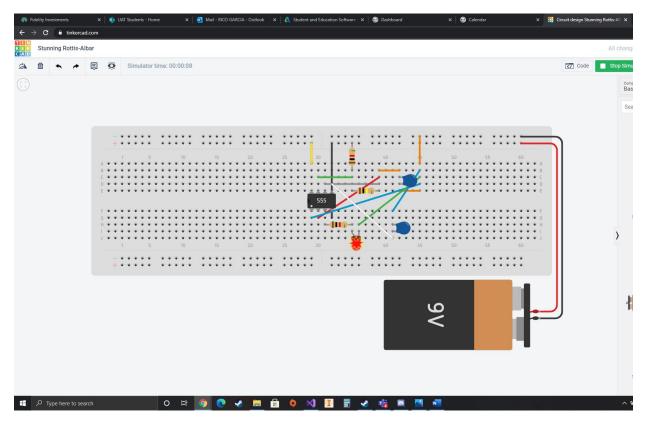
Parts A&B

TinkerCad and physical representations of circuit



Unless the LED is flashing too fast for me to notice, I don't believe it's flashing at all.

Parts C&D



When I change C1 to 100uF and R2 to 100k, it overloads the LED. I am glad I did not try this with my physical circuit.

The less resistance I have, the brighter the LED shines until it eventually blows, the capacitance I alter with either of the capacitors doesn't seem to have any change.