

# LED Circuit Board

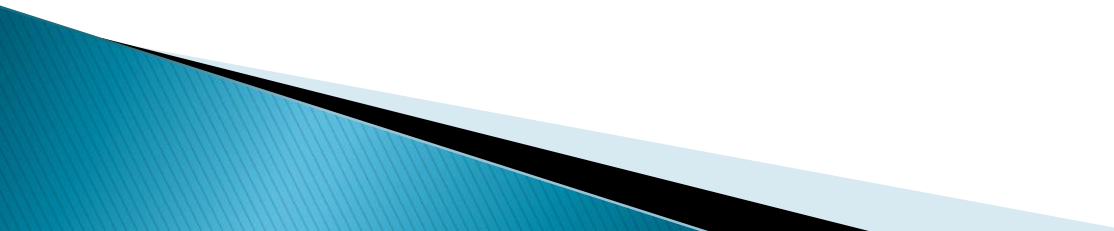
My Ideas And Research

# Red LEDs As An Photosensor

- ▶ It's been know for a while that LEDs can functions as photo diodes or photo sensors, if wired properly, so I wish to look into replacing the PMCs with less expensive LEDs to cut cost. Of course we must fist see if the LED photo sensors are even accurate enough for this experiment.

<http://makezine.com/projects/make-36-boards/how-to-use-leds-to-detect-light/>

# Different LEDs Controllers

- ▶ There are a ton of different LED Control boards out there and I was wondering if we have looked at them. The whole problem of lighting up more than one led might be fixed by a better control board.
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# LED Configuration

- ▶ Right now we have a Column based LED Setup, which is best suited for a display board while it's a good fit for their experiment its not so perfect for ours. We need to try so different configurations or maybe just build off theirs. I think we should come up a setup that connects the LEDs individually to the controller. However that takes time and more money to do so.

# Intensity Control

- ▶ I Believe that this is a simple task to solve, but hard to actually do programming wise. All we need to do I think is to add a switch, knob, or a sensor that can adjust the intensity of light. Easy to do physically but programming it is the hard but should be possible. If we want to do it individual, we need a individual wire configuration.

<http://www.maximintegrated.com/en/app-notes/index.mvp/id/4253>