

Thermal Photography

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Objective

- *Uses* temperature sensor to change the color of a NeoPixel ring
- *Create* heat map via long exposure photography

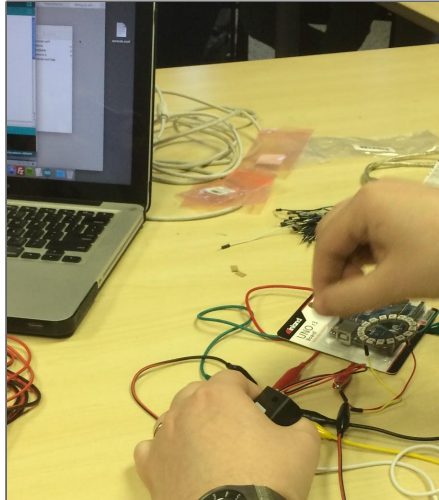


Materials

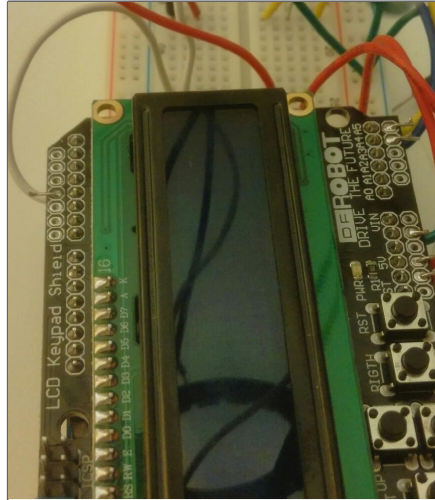
- Arduino Uno
- LED keyboard shield
- [MLX90614](#) non-contact IR thermometer (3v)
- 16x NeoPixel Ring
- 9 Volt Battery and Battery Holder
- 4.7k Ohm resistors *2
- Wires



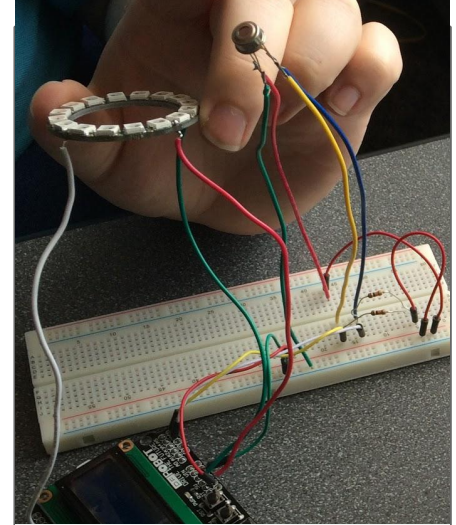
Iterations



Started with case finding.



Added LCD shield.



Power Issue.

Final Result



Demo





Challenges

- lcd power challenges
- lcd programming
- running libraries

Contributions

- temperature calibration
- lcd
- a full documentation

