King Kiu Brian Leung

Christopher Cantor

Programming and electronics

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Progress Report

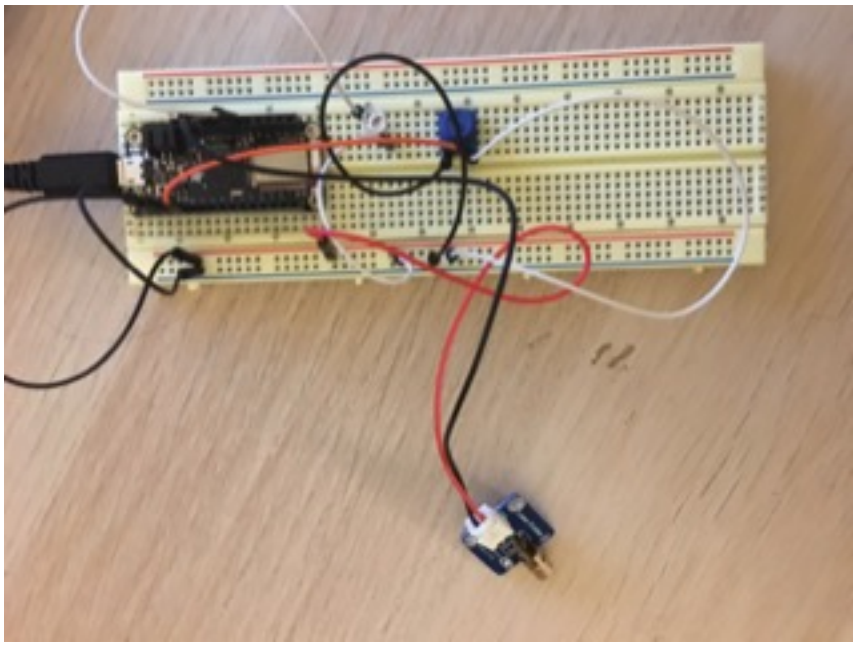
To remind you, my concept for this project is to create a flashlight using both LED and laser sensor. This concept consist of 3 principles:

1. 3 different light modes
2. LED and laser will work separately
3. Light would be magnified through a lens

For tools and electronic components, I have:

- Laser sensor
- LED pin
- Potentiometer
- Magnifying lens
- Wires
- Feather board
- Breadboard
- USB cable

During the process, I had managed to successfully code and program the laser and LED. I used the potentiometer to set 3 trigger points for the light modes. The light modes include one with laser turned on, one with LED turned on, and one with LED constantly blinking. Here's the schematics:



But I have one problem. When I test to see if the lights can be magnified with the lens, only the LED worked. The laser actually did the opposite, it narrowed the light instead of magnifying it. I thought the lens has some problems, but actually it was just the nature of laser that's different than LED. So I changed the story up a bit and made the LED is the only thing that can be magnified. After that it's all done.