Idea for Snake Vision robot - miscellaneous information needed for using the Infrared Temperature Sensor MLX90614

<http://www.icstation.com/mlx90614esf-human-body-infrared-temperature-sensor-contact-temperature-module-p-9911.html>

<https://learn.sparkfun.com/tutorials/mlx90614-ir-thermometer-hookup-guide>

May need this for using two of these sensors with the Arduino

<http://playground.arduino.cc/Main/SoftwareI2CLibrary>

Update Nov 22, 2016 -

My (work in progress code)

<https://github.com/kd8bxp/Snake_Vision_Robot>

<https://www.youtube.com/watch?v=MlzcmkfxLJg>

There is an Adafruit library for use with these sensors I will update the link shortly.

I am making an instructable for this project as well.

So far initial tests these sensors are very very good and sensitive.

My logic in how to make this work is a little off - and I’m making some changes to see if I can’t get it to work better.

Currently I am thinking of having the “Ambient” temperature be set to max PWM (255) and subtracting the left and right readings (from 255 to 155) this would mean that if the ambient temperature is 75 degrees, it’s PWM value would be 255.

If the reading from the left or right sensor is 75 it would be mapped to a PWM value of 255.

If you subtract these numbers - you’ll get zero - and no movement in the robot.

The higher the sensor reading the lower the PWM reading - down to 155.

255 - 155 = 100 which is the lowest value that my wheels will work on this robot.

There may still be a problem with this - and I need to test what values get mapped when using the map function of arduino.

This is still a work in progress - but needs to be completed soon.

Information on the CD74HC4067 Mux boards.

<http://bildr.org/2011/02/cd74hc4067-arduino/>

(these are very easy to use, and do just what they say they do)