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PIR Motion Sensor

Main Loop Code Specialist:

If the sensor detects motion for 5+ seconds, then the computer turns on.

If the motion sensor detects motion for 5+ seconds, then the monitor turns on.

If the motion sensor detects motion for 5+ seconds, then the keyboard turns on.

If the motion sensor detects motion for less than 4 seconds than the computer won’t turn.

If the pc is powered, then the pc LEDs/lights turn on

If pc is powered on then the speaker will indicate a beep.

If the monitor is powered on then the monitor LED/lights turn on

If the motion sensor detects motion out of range, then the outcome will be nothing.

For each time the pc is powered on the speaker will indicate a beep.

(Turns on computer and devices) with an output beep of indication from a buzzer/speaker.

* pc
* monitor displaying results/data
* pc lights
* led lights
* screen on
* keyboard
* etc

Hold mouse for less than 4 (1-4) seconds = nothing

Code that can identify a specific variable in seconds that the motion sensor needs to operate on.

Far away from mouse = nothing

(Out of sensors range)

A code to detect whether a human has moved in or out of the sensors range.

if (val == HIGH) { // check if the input is HIGH

if (state == LOW) { // check if the input is LOW

Whenever the PIR motion sensor detects a person, it outputs a digital HIGH signal to the Arduino's digital pin. This will trigger a function called: intruder\_detect(). You can program the Arduino to do something when it detects an intruder by editing the function: intruder\_detect().

if(motionDetected == HIGH) // If motion detected

We will have to built in Buzzer or Piezo Speaker (OSSEP) that will indicate if there is motion detected from the mouse.

void setup(){

pinMode(buzzer, OUTPUT); // Set buzzer - pin 9 as an output

}

void loop(){

tone(buzzer, 1000); // Send 1KHz sound signal...

delay(1000); // ...for 1 sec

noTone(buzzer); // Stop sound...

delay(1000); // ...for 1sec

}

An Arduino command/code that identify usb device such as mouse in the loop.