

Motion Detection

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Abstract: *In this project, we are going to make a motion detection security alarm using Arduino uno. It can detect the motion of an intruder with help of a PIR Sensor. It is based on infrared motion sensing that is every body emits heat energy in the form of infrared rays which are invisible to human naked eye but can be detected using electronic motion sensor. The main objective is that it focuses on detection of motion without any external touch. The applications are as a automatic door bell circuit, in defence applications and other electronic devices. The passive infrared sensor detects the IR radiations emitted from humans within its range and it sends the signal to Arduino uno then the led glows and then it triggers buzzer, hence motion is detected. The name Passive Infrared Sensor is called so in light of the fact that it gets the infrared beams inactively and don't produce any infrared beam. The alert that goes off can be physically reset.*

Keywords: Arduino Uno, PIR sensor, Bread Board, Resistor, Jumper wire

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