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| **Title:** | Design and Implementation of Thermal Sensor Based Temperature Measuring Robot Using Arduino Uno | | |
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| **Abstract:** |  |
| This paper is about the “Thermal sensor based Temperature Measuring Robot” using Arduino Uno circuits. In this technology, Temperature Measuring Robot measured the temperature of the human body and the temperature of any object. The MLX90614 infrared thermometer is a contactless temperature sensor module for Arduino compatible device. An infrared thermometer works to measure the object temperature by the infrared radiation in the form of an electromagnetic wave through the light emitted on the object. MLX90614 is a powerful infrared sensing device with a very low noise amplifier with a 17 bit ADC. It utilizes non-contact temperature sensing to collect the temperature info without touching any surface of the object. The construction is equipped with many sensors. Hardware and software architecture and integration with Robot operating system is described in details. In the last part of the paper we presented the results of implemented measurement technologies and draw conclusions. | |