

# **Radar System Using Arduino Uno**

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**Abstract:** *Radar technology is widely used for detecting objects and measuring their distance. This project presents a simple radar system developed using Arduino Uno, an Ultrasonic sensor, and a servo motor. The ultrasonic sensor sends sound waves toward an object, and the reflected waves return to the sensor. By calculating the time taken for the echo signal to return, the system determines the distance of the object. The servo motor is used to rotate the sensor to scan a specific area, and allowing detection of objects at different angles. The collected data is displayed on the computer screen using Arduino IDE and processing software. The project is useful for understanding the working principle of radar system and for applications such as obstacle detection.*

**Keywords:** *Radar technology*

