

A Major Project Report

# BLUETOOTH CONTROLLED ROBOT WITH METAL DETECTOR

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

In partial fulfillment of the requirement for

The award of degree of

**BACHELOR OF TECHNOLOGY**

In

**ELECTRONICS & COMMUNICATION ENGINEERING**

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2022-2023



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**CERTIFICATE**

This is to certify that the mini project entitled “**BLUETOOTH CONTROLLED ROBOT WITH METAL DETECTOR**” submitted to JNTUH is carried out by the following students of **IV B. Tech** in the partial fulfilment for the award of the B. Tech degree in **Electronics and Communication Engineering** during the academic year **2022-2023**.

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## ABSTRACT

- This project is designed to develop a robotic vehicle that can sense metals on its path. This robot is controlled by a remote android application. Metal detection robotic vehicle is operated by Bluetooth remote control wirelessly.
- The metal detection system is attached to the system detects any metal underneath it. On detection it automatically sends on small buzzing alarm to notify user about it. The system works with an Arduino Microcontroller .



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