

# **FINAL YEAR PROJECT REPORT**

**Title**

**Human Detection and Rescue Robot using Zigbee  
Technology**

**By**

Name Hifza Khalid	Registration #	Program BET 8
Name Nabiha Zainab Khan	Registration #	Program BET 8
Name Tooba Siddiqui	Registration #	Program BET 8

**Supervised by**

Engr. Muhammad Hussain

**Bahria University (Karachi Campus)**

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# **Human Detection and Rescue Robot using Zigbee Technology**

# Submission Performa

Name (1) Hifza Khalid

(2) Nabiha Zainab Khan

(3) Tooba Siddiqui

Address(1)..... (Student's address)

(2)..... (Student's address)

(3) House # A-50, Sector V-2, Gulshan-e-Maymar Karachi

Title of Report

**Human Detection and Rescue Robot using Zigbee Technology**

Project Supervisor's Name

Muhammad Hussain

This report is submitted as required for the Project in accordance with the rules laid down by the Bahira University as part of the requirements for the award of the degree of Bachelor of Engineering. I declare that the work presented in this report is my own except where due reference or acknowledgement is given to the work of others.

Signatures of students

Date

(1).....

.....

(2).....

.....

(3).....

.....

Signature of Supervisor

Date

.....

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## **ABSTRACT**

This report discusses the scope and detailed description of our final year project “Human Detection and rescue robot using Zigbee Technology”.

The project is designed to detect lives when people are buried under the debris after disasters like earthquakes or plane crashes. It is equipped with sensors to sense the life and the environment inside the building and send the information to the central control unit. It can also be used in military application when terrorists or any such human beings are used to detect. It also has a wireless camera to tell us the path and the vision inside. Camera is also useful to transmit the sound. It is remotely controlled via RF technology. The RF module will be of Zigbee's.

Commands used to move the robot and check the temperature of the area, are sent through the central control unit which has one Zigbee transceiver. The other Zigbee transceiver is carried by the robot which receives the commands and when life is detected it sends back the message “LIFE DETECTED” to the central control unit.

This report briefly tells about the system and its technical description. The focus of the report is to discuss the scope and objectives of our project, components used and describe the technology used in this project.