**MEAN BASED APPROACH TO OMNI DIRECTIONAL PATH FINDING ALGORITHM USING SINGLE ULTRASONIC SENSOR**

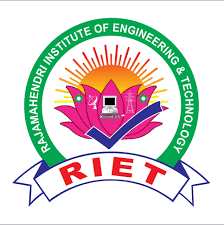
A main project report   
Submitted in partial fulfilment for the award of the degree

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRONICS & COMMUNICATION ENGINEERING**

**Submitted by**

|  |  |
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| **21MD1A0429** | **J. DHEERAJ** |
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Under the esteemed guidance of  
**Dr. CH. SURYABABU**, **M. Tech., PhD   
Professor & HOD**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**RAJAMAHENDRI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**(APPROVED BY AICTE, AFFILIATED TO JNTUK, KAKINADA AND ACCREDITED TO NAAC)**

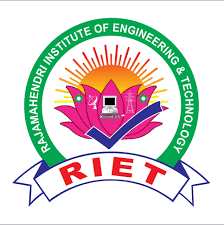
**BHOOPALAPATNAM, RAJAMAHENDRAVARAM -533107**

**2021 - 2025**

**RAJAMAHENDRI INSTITUTE OF ENGINEERING & TECHNOLOGY**

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**CERTIFICATE**

This is to certify that **J. DHEERAJ – 21MD1A0429, G. BHARATH CHANDU – 21MD1A0422, N. SATISH CHANDRA – 22MD5A0407, M. K. JAGADHISWAR – 21MD1A0440** of fourth year B. Tech., had carried out the main project work on “**Mean-Based Approach to Omni-Directional Path Finding Robot Using a Single Ultrasonic Sensor”**. For the partial fulfilment of the award of the degree of Bachelor of Technology in **Electronics and Communication Engineering (ECE)** in **RIET**, Rajamahendravaram (Affiliated to JNTU, Kakinada) is a bonafide record of the work done by them during the academic year 2024-2025 under the guidance and supervision. The results of this project have not been submitted to any other University or Institute for the award of any degree.

|  |  |
| --- | --- |
| **Internal Guide** | **Head of the Department** |
| **Dr. CH. SURYABABU, M. Tech., PhD** | **Dr. CH. SURYABABU, M. Tech., PhD** |
| **HOD & Professor** | **HOD & Professor** |

**EXTERNAL EXAMINER**

**ACKNOWLEDGEMENT**

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