

“WIFI CONTROLLED WHEELED ROBOT”

A Dissertation submitted in partial fulfilment of the requirements for the award of degree of

MASTER OF COMPUTER APPLICATIONS

Of

Visvesvaraya Technological University



By

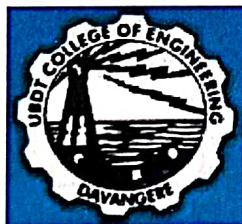
TEJASWINI T R

4UB20MC116

Under the Guidance of

Dr. HARISH B G

Dept of MCA



**Department of Master of Computer Applications,
UNIVERSITY B.D.T COLLEGE OF ENGINEERING,**

Dental College Road, Opposite Shanthala Shop,

DAVANGERE – 577 004.

2022

UNIVERSITY B.D.T COLLEGE OF ENGINEERING

DAVANGERE – 577 004

(A Constituent College of Visvesvaraya Technological University, Belgavi, Karnataka)



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

CERTIFICATE

This is to certify that Ms. TEJASWINI T R bearing USN:4UB20MC116 Completed her 4th semester project work entitled “WIFI CONTROLLED WHEELED ROBOT” as a partial fulfilment for the award of Master of Computer Applications degree, during the academic year 2021-2022 under my supervision.

Signature of Internal Guide

Dr. HARISH B G
Department of MCA
UBDTCE, Davangere.

Signature of HOD

Dr. HARISH B G
Head of the Department(HOD)
Department of MCA
UBDTCE, Davangere.

Signature of Principal

Dr. MALLIKARJUN S.HOLI
Principal
UBDTCE, Davangere.

External Viva-voice

Name of the Examiners:

1.....

Signature:

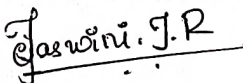
2.....

Signature:

DECLARATION

I, Ms. **TEJASWINI T R** student of 4th semester MCA, **UNIVERSITY B.D.T COLLEGE OF ENGINEERING**, bearing USN **4UB20MC116** hereby declare that the project entitled **“WIFI CONTROLLED WHEELED ROBOT”**, has been carried out by me under the supervision of Guide **Dr. HARISH B G** Dept. of MCA and submitted in partial fulfilment of the requirements for the award of the Degree of Master of Computer Applications by the **Visvesvaraya Technological University** during the academic year 2021-22. This report has not been submitted to any other University for any award of degree or certificate.

Name: TEJASWINI T R

Signature: 

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the progress and completion of any task would be incomplete without the mention of the people who made it possible, whose constant guidance and encouragement ground my efforts with success.

I consider it is a privilege to express my gratitude and respect to all those who guided me in the progress of my project report.

I express my sincere words of gratitude to our honourable principal **Dr. Mallikarjun S Holi** , for his constant and dedicated support.

It is a great privilege to place on record my deep sense of gratitude to our co-ordinator **Dr. Harish B G, Department of Master of Computer Applications**, who patronized our carrier and for the facilities being provided for our work.

I express my deep sense gratitude to **Dr. HARISH B G, project guide Department of Master of Computer Applications**, for supporting and encouraging at each stage of my project work and guided us to do our best.

I also sincerely express my gratitude for all the teaching and non-teaching staff of MCA Department, UBDTCE Davangere, who directly or indirectly helped me in completing the project.

Last but not the least I want to thank my parents for their moral support and my beloved friends for their help and suggestions.

NAME: TEJASWINI T R

USN: 4UB20MC116

CONTENTS

ABSTRACT

PAGE NO

Chapter 1

1. INTRODUCTION	1-2
1.1 Project Description	1
1.2 Application.....	2

Chapter 2

2. LITERATURE SURVEY	3-8
2.1 Existing and Proposed System.....	3
2.1.1 Existing system	3
2.1.2 Limitations of existing system	3
2.1.3 Proposed System	3
2.1.4 Advantages of proposed system.....	3
2.2 Feasibility Study	4
2.3 Tools and Technologies Used	4
2.4 Hardware and Software Requirements.....	8

Chapter 3

3. SOFTWARE REQUIREMENTS SPECIFICATION.....	9-10
3.1 User requirements	9
3.2 Functional requirements.....	9
3.3 Non-functional requirements.....	10

Chapter 4

4. SYSTEM DESIGN.....	11-13
4.1 System Perspective.....	11
4.2 Context Diagram.....	12

Chapter 5

5. DETAILED DESIGN	13-17
5.1 Architecture diagram.....	13
5.2 Flow Chart.....	14
5.3 Use Case diagram.....	15
5.4 Sequence diagram... ..	16

Chapter 6

6. IMPLEMENTATION	17-28
6.1 Steps to implementation.....	17
6.2 Components Required.....	27
6.3 Results.....	28

Chapter 7

7. SOFTWARE TESTING.....	31-32
7.1 Levels of testing.....	31
7.2 Test cases.....	32

Chapter 8

8. CONCLUSION	33
----------------------------	-----------

Chapter 9

9. FUTURE ENHANCEMENT.....	34-36
I. Appendix A-Bibliography	35
II. Appendix B-User Manual.....	36