Smart RC Car

A PROJECT REPORT

Submitted By

Anshul Sharma	(150800107002)
Krishmaben Rameshbhai Patel	(150801160029)
Trusha Sanjaykumar Parikh	(150801160021)

In fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

COMPUTER ENGINEERING



Vadodara Institute of Engineering, Kotambi

Gujarat Technological University, Ahmedabad

Index

Chapter	Title	Page No
	Acknowledgment	I
	Certificate from College	II
	Certificate from PMMS Portal	III
	Plagiarism Report	IV
	Abstract	\mathbf{V}
	List of Tables	VI
	List of Figure	VII
1	Introduction	1
	1.1 Project Summary	1
	1.2 Purpose	2
	1.3 Scope	4
	1.4 Technology and Literature Review	5
2	System Requirements Specification	6
	2.1 User Characteristics	6
	2.2 Hardware & Software Requirements	6
	2.3 Constraints	8
	2.4 Timeline & Process Model	9
3	System Analysis	12
	3.1 Study of Current System	12
	3.2 Problem and Weaknesses of Current System	13
	3.3 Requirements of New System	13
	3.4 Feasibility Study	14
	3.5 Requirements Validation	17
	3.6 System Diagrams	18
4	System Design	19
	4.1 System Procedural Design	19
	4.2 Flow of Data	23
	4.2.1 Collect Training Data	23
	4.2.2 Train Model	25
	4.2.3 Self Driving Flowchart	27

5	Implementation & Planning and Details	29
	5.1 Implementation Environment	29
	5.2 Modules Specification	30
	5.3 Security Features	30
	5.4 Process Of Implementation	31
6	Testing	33
	6.1 Test Plan 6.2Test Strategy	34 35
	6.3Test Method	36
7	Screen Shot	37
8	Limitation and Future Enhancement	43
	8.1 Limitation	44
	8.2 Future Enhancement	44
9	Conclusion References Appendix	45
	1 PPR	
	2 PDE	
	3 CANVAS	

ACKNOWLEDGEMENT

With a sense of gratitude and respect, we would like to extend our heartiest thanks to all those who provided help & guidance to us during our college period. It was a pleasant and highly educative experience to work for project on Smart Rc Car. We are grateful to Prof. Parth Patel our internal, for her excellent guidance. Also, We are extremely grateful to Prof. Ajaysinh Rathod who were kind enough to consider our choice and trust on us for providing a good project and was always ready to provide the best instruction and guidance to do work better. Many things and people have helped us for working on this project, each of their contribution is very valuable for us.

Anshul Sharma (150800107002)

Trusha Sanjaykumar Parikh (150801160021)

Krishmaben Rameshbhai Patel (150801160029)

8th Sem B.E(C.E.)

Vadodara Institute of Engineering, Kotambi

Computer Engineering

2019

CERTIFICATE

Date:

This is to certify that the project entitled "Smart RC Car" has been carried out by Anshul Sharma (150800107002), Krishmaben Rameshbhai Patel (150801160029), Trusha Sanjaykumar Parikh (150801160021) under my guidance in fulfilment of the degree of Bachelor Of Engineering in Computer Engineering 8th Semester of Gujarat Technological University, Ahmedabad during the academic year 2018- 2019.

Guide:

Prof. Parth Patel Prof. Ajaysinh Rathod

Asst. Professor in Computer Engineering. Head of the Department