VISVESVARAYA TECHNOLOGICAL UNIVERSITY "JNANA SANGAMA", BELGAVI-590018 KARNATAKA



Mini Project Report (18ECMP68)

ON.

"Distance Based Accident Avoidance System"

Submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by:

ANIKET ASHOK NEJA (USN: 1SV18EC001)

K S SANTHOSH (USN: 1SV19EC014)

Under the Guidance of:

Dr. Pradeep K G W. B.E., M.Gen., Ph.D. Associate Professor, Dept. of ECE., SUET Tamkara-572106



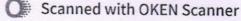
DEDUCATION ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE, New Delhi)

Sira Road, Tumkur-572106

2021-2022

PRINCIPAL SIET., TUMAKURU.



SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Recognized by govt, of Karuataka, Affiliated to VTU, Belagavi and approved by AICTE, New Delhi) Sira Road, Tumkur-572106, Karnataka





DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Certificate

This is to Certified that the mini project work (18ECMP68) entitled "Distance Based Accident Avoidance System" has been Successfully carried by ANIKET ASHOK NEJA (USN:1SV18EC001) K S SANTHOSH (USN:1SV19EC014), a bonafide students of Shridevi Institute of Engineering and Technology, Tumkur- 572106, in partial fulfillment for the award of Bachelor Of Engineering in Electronics & Communication Engineering of the Vishvesvaraya Technological University, Jnana Sangama, Belagavi -590018, during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for internal assessments have been incorporated in the report. The mini project report has been approved as it satisfies the academic requirement with respect to the mini project work prescribed for the said Bachelor of Engineering degree.

Dr. Pradeep K G M Associate professor Dept. of ECE., SIET Tumakuru

Signature of the g

Signature of the HOD Prof. Aijaz Ahamed Sharief

HOD

Dept. of ECE., SIET

Tumakuru

Signature of the principal

Dr. Narendra Viswanath Principal SIET, Tumakuru

EXTERNAL VIVA

Name of examiners:

Signature with date:

PRINCIPAL SIET., TUMAKURU



HOL Dept of E&C SIET; Tumkur-6

ABSTRACT

In this paper, we introduce a new technique in automobile technology about how to keep 40 cm distance between one vehicle and another vehicle, so that the vehicle don't crash or cause any traffic problem. The aim of the system is to prevent accidents mainly due to not knowing the following distance (i.e., 40cm) between one vehicle and another vehicle. The proposed system comprises an idea of having safety while reversing a vehicle, detects any object within the following distance, and displays the distance between one vehicle and another vehicle to the driver using monitor. We have used ultrasonic sensors to detect any vehicle on front or back side of our vehicle. This system is also used in large crane which is mainly operated in harbor area. If the vehicle reaches greater than 25cm to less than 40 cm, green color light will glow. At less than 25cm to greater than 15cm distance yellow color light will glow. When it reaches less than 15 cm distance red color light will glow. The distance is also indicated to the vehicle driver. By this proposed system, the safety is maintained on crowded areas and in vehicle reversing process.

HOD Dept of E&C SIET, Tumkur-6

PRINCIPAL SIFT TUMAKURU

iii

Scanned with OKEN Scanner