VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

A PROJECT REPORT ON

"TRAFFIC MANAGEMENT NEAR U-TURN TO AVOID ACCIDENTS"

Submitted in partial fulfillment for the award of Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE &ENGINEERING

By

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CERTIFICATE

This is to certify that the project entitled **"TRAFFIC MANAGEMENT NEAR U-TURN TO AVOID ACCIDENTS"** has been successfully completed by

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the bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2018–2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Road Traffic is one of the most vital problems in our hastily developing world as rapid growth in the transport sector has resulted in an increase of the accidents every day. Study of different aspects and issues related to the road traffic problems are presented using prominent technology - the Internet of Everything (IoE) for developing a smart system to monitor various parameters related to the problem and using it as an effective solution. The accidents mainly occur due to our carelessness and breaking of traffic rules. In this project, the main goal of the proposed system is to manage collisions near U-turn by providing indication and making the driver alert. In this system IR sensor and other embedded systems are used. By receiving signals from sensors we can predict vehicle movement. Sensors and traffic signals are placed on the lane near U-turn and signal is always green, if any vehicles approach near the sensor the light turns to red indicating vehicles to stop on the opposite lane. If the traffic rules are violated, laser sends the signal to the controller and sends the message to concerned department. After vehicle takes U-turn another sensor send the signal to reset the light to green. Similarly on the other side.