

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

“AUTOMATIC DIPPER AND VEHICLE TO VEHICLE COMMUNICATION FOR CRASH AVOIDANCE”

Submitted by

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In partial fulfilment of the requirements for the degree of

BACHELOR OF ENGINEERING

In

INFORMATION SCIENCE AND ENGINEERING

Under the Guidance of

Mr. MANJUNATH H. R.

Associate Professor



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Moodbidri-574225, Karnataka

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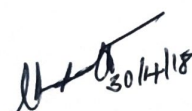



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CERTIFICATE


Certified that the project work entitled "Automatic Dipper And Vehicle To Vehicle Communication for Crash Avoidance" is a bonafide work carried out by

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in partial fulfilment for the award of BACHELOR OF ENGINEERING in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year 2017-2018. 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

Number of vehicles on our roads is increasing day by day, also the technology has developed but the safety factor is always needed to be considered. Head lights of vehicles pose a great danger during night driving. The drivers of most vehicles use high, bright beam while driving at night. This causes a discomfort to the person travelling from the opposite direction. Driver experiences a sudden glare for a short period of time. This is caused due to the high intense headlight beam from the other vehicle coming towards him from the opposite direction. Drivers are expected to dim the headlight to avoid this glare. This glare causes a temporary blindness to a person resulting in road accidents during the night.

Now a days vehicles are fitted with lots of safety features. One of the essential safety feature that need to be installed is automatic upper-dipper control of headlight, this feature can mainly use during night time driving. Human eyes are very sensitive to the light, if eyes suddenly comes in contact with the light after darkness, cornea present in eyes gets contract i.e; vision gets blank and require some time to recover the vision. Many times the situation comes when suddenly vehicle approaches from front with headlight in upper mode causes blindness to the eyes of the driver. During that time vehicle covers some amount of distance, hence accident may occur. It is a sheer luck if person goes safely through that situation. To overcome this manual dipping problem, an automatic mechanism has made to dip the headlight automatically whenever situation occurs. This can reduce number of accidents during night time and provide comfortable driving.