A Seminar on

**NIGHT VISION SYSTEM IN AUTOMOBILES**

By

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C E R T I F I C A T E

This is to certify that ***Mr Kaustubh Pradip Masurkar****. has* successfully completed the Seminar entitled, “**Night vision system in automobile**”, under my supervision in the partial fulfillment of Bachelor of Engineering of Savitribai Phule Pune University, Pune.

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**ABSTRACT**

Safety and security of life are the two most booming words in the field of transport and manufacturing. The world has emerged from being a just simple form of day to day life to being aeon of mean and daring machines. Thus the safety of the people both inside and outside the vehicle is of prime concern in the car manufacturing industry and scientists are working day in and day out to ensure more and more complex forms of security for the human kind.

After dark, your chances of being in a fatal vehicle crash go up sharply, though the traffic is way down. Inadequate illumination is one of the major factors in all the car crashes that occur between midnight and 6 a.m. Headlights provide about 50 meters of visibility on a dark road, but it takes nearly 110 meters to come to a full stop from 100 km/hr. At that speed, you may not respond fast enough to an unexpected event, simply because the bright spot provided by your headlights doesn't give you enough time .Thus emerged the night vision systems that use infrared sensors to let driver see as much as 3 or 4 times farther ahead and help them quickly distinguish among objects.