SMART VEHICLE SURVEILLANCE SYSTEM

A Project report submitted in partial fulfillment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Accredited by NAAC, Approved by A.I.C.T.E, Affiliated to J.N.T.U. KAKINADA)

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VISAKHAPATNAM DISTRICT-531113

2016-2019

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BONAFIDE CERTIFICATE

This is to certify that the project entitled "**SMART VEHICLE SURVEILLANCE SYSTEM**" in partial fulfillment for the degree of **Bachelor of Technology** in **ELECTRONICS AND COMMUNICATION ENGINEERING** at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafide work carried out by **R.DAYAVATHI** (16815A0435), **M.GANESH** (16815A0423), **V.SUGUNA**(16815A0442), **K.RAJA KUMAR** (16815A0415) under the guidance and supervision during 2016-2019.

PROJECT GUIDE

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ABSTRACT

The project proposes a GPS and GSM based accident alert and real time vehicle tracking system that tracks the vehicle and sends the tracking data (latitude and longitude) to the owner with the exact location on Google maps. This system proves very beneficial for transport and travel companies as they can now keep track of their vehicles. For this, the system uses GPS receiver (for tracking the vehicle position), GSM modem (for sending data to the owner) interfaced to the microcontroller.These systems constantly watch a moving vehicle and report the status on demand. It can show the position of all vehicles in real time, So that they can create the expected data accordingly. These tracking system can store the whole data where the vehicle had gone, where did it stop, how much time it take at every stop and can create whole data analysis. It is also used in buses and trains, to estimate how far are they, how much time it takes for them to come to a particular stop. These systems are used to data capture, data storage, data analysis.

HARDWARE REQUIREMENTS:

- Atmega8 AVR microcontroller
- GPS module
- GSM module
- MEMS sensor
- DC motor
- Power supply
- Switch