

Ideation Phase Literature Survey

Date	11 October 2022
Team ID	PNT2022TMID48642
Project Name	Signs with Smart Connectivity for Better Road Safety

Literature Survey for the project:

S.No	TITLE	AUTHOR	TECHNOLOGY	ADVANTAGES	DISADVANTAGES
1	Smart Traffic Sign Detection on Autonomous Car	1.MariaAdelina Sirbu 2.AndreiBaiasu 3.MihaelaCrisan-Vida 4.RazvanBogdan	1.Histogram equalization 2.CLACHE(Contrast-limited adaptive histogram equalization) 3.Haar-Haar cascade	*Haar cascades provide a better performances at a runtime. * Better detection. *It reduce the road accident	* worst-case scenario, either the obstacle came too closer or another obstacle which cannot be avoided appear then a decision to stop is made.
2	An IOT Based Car Accident Prevention And Detection System With Smart Brake Control	*Mubashir Murshed *Md Sanaullah Chowdhury	*Raspberry pi *Ultrasonic sensor *Servo motor	* This will allow the car both changes the speed and make it stop at the same time. *The servo motor placed in gearbox or break paddle will attached in the most effective way *The email send to the responsible person	*If the manual transmission car it will operate on the gearbox and clutch by changing a gears.This allow the car to both change speed and stop it completely without turning off the engine *Cost is high.
3	Iot For a Smart Transportation System	*Ahmedy.Awad *Seshadri mohan	*GPS and Assisted GPS *Raspberry pi * GPS sensor *SUPL *ESMLC *Cloud unit	*To fixed the servomotor in the gear to reduce the speed *if the car is accident the msg will automatically send to the authorized person	*High cost *It some times to fail to reduced the speed
4	Smart Cars On Smart Roads	*Fei-Yue Wang *Daniel Zeng *Liuqing Yang	GPS , ad hoc network,and sensors are used *Pervasive computing methodology and	*Easy to track the location *Find the objects for efficiency	*If the rainy time the signal is weak it does not detect the locations.

			ITS technology		
5	Automatic Vehicle Accident Detection and Messaging System Using GSM and GPS Modem	*C.Prabha *R.Sunitha *R.Anitha	*MEMS sensor (Micro electro mechanical system. *ARM controller *GSM and GPS	*Easy to operate. *Sophisticated security. *Simple and Reliable Design. *Isolates both GSM and GPS signal.	*It does not work without network
6	A Comprehensive study on iot based accident detection systems for smart vehicles	*Unaiza Alvi *Muazzam A.Khan Khattak *Balawal Shabir *Asas Waqar Malik *Sher Ramzan Muhammad	*VANET *RF module *MEMS sensor *temperature sensor *Vibration sensor *GPS ana GSM	*The VANET is safety *Sending the message immediately	*Using the VANET it's a major problem is security *Server issue