**Conclusion:**

Electromagnetic Braking is superior to conventional frictional braking as there is no friction and heat in electromagnetic braking. So the conventional disc and drum brakes can be replaced with electromagnetic brakes. electromagnetic braking system which includes various components with its cost effectiveness and efficient methodologies to utilize the supplied energy. With the application of the effective and strong electromagnet we can have greater efficient braking system.

Electromagnetic brakes have numerous preferences over frictional slowing mechanism. The blend of swirl present and attractive powers makes this brake more successful. This brake can be utilized as assistant stopping mechanism in vehicle. The utilization of abs can be dismissed by utilizing a smaller scale controlled electromagnetic framework. it cannbe utilized as a part of rail mentors to decelerate the prepare moving in fast. Mix of these brakes expands the brake life and act like completely stacked brakes. These brakes can be utilized as a part of wet condition, so there is no utilization of against slipping instrument. it is completely electrically controlled which brings about less mishaps. The braking power delivered in this brake is not as much as the plate brakes. Subsequently, it can be utilized as an auxiliary or crisis slowing mechanism in the autos.

With all the advantages of electromagnetic brakes over friction brakes, they have been widely used on heavy vehicles where the „brake fading‟ problem exists. The same concept is beingdeveloped for application on lighter vehicles. The concept designed by us is just a prototype and needs to be developed more because of the above mentioned disadvantages. These electromagnetic brakes can be used as an auxiliary braking system along with the friction braking system to avoid overheating and brake failure. ABS usage can be neglected by simply using a micro controlled electromagnetic disk brake system .These find vast applications in heavy vehicles where high heat dissipation is required. In rail coaches it can used in combination of disc brake to bring the trains moving in high speed. When these brakes are combined it increases the life of brake and act like fully loaded brakes. These electromagnetic brakes can be used in wet conditions which eliminate the anti skidding equipment, and cost of these brake are cheaper than the other types. Hence the braking force produced in this is less than the disc brakes if can be used as a secondary or emergency braking system in the automobiles.

GPS is a fantastic tool of the 21st century offering many functions: waypoint, MOB…. However, received information is not always reliable, and it would have been interesting to see in which cases it is not. Furthermore, the space segment is completely controlled by the American Army which enables them to completely remove the satellite cover in certain countries in the event of a war… This aspect mobilized Europe towards the creation of its own GPS system: the project GALILEO, which should be in place2008. The future of GPS appears to be virtually unlimited; technological fantasies abound. The system provides a novel, unique, and instantly available address for every square yard on the surface of the planet–a new international standard for locations and distances. To the computers of the world, at least, our locations may be defined not by a street address, a city, and a state, but by a longitude and a latitude. With the GPS location of services stored with phone numbers in computerized “yellow pages,” the search for a local restaurant or the nearest gas station in any city, town, or suburb will be completed in an instant. With GPS, the world has been given a technology of unbounded promise, born in the laboratories of scientists who were motivated by their own curiosity to probe the nature of the universe and our world, and built on the fruits of publicly supported basic research.

The proposed vehicle tracking & monitoring system can be used to alert Fleet Managers in case of unnecessary acceleration, harsh braking, routing, and speedy driving. This is extremely useful in case of school buses, trucks and containers carrying sensitive items like fuel, gas and other inflammable goods. Also this work is important to check the conditions of the main spare parts of each vehicle such as tires, oil filter, air filter, and oil engine. This can be accomplished by employing the GPS coordinates to calculate the past distances for each vehicles. This work can be extended to provide more services such as delivery systems, predict traffic locations, and efficient emergency callings.

While GPS data can bring tremendous value to emergency response and criminal investigation, we need to keep in mind that GPS signals can easily be spoofed as well. Location spoofing software can trick a phone’s built-in GPS by transmitting a false set of coordinates, which allow device owners to virtually travel to any location in the world. Regardless of this limitation, we want to encourage both security teams and law enforcement looking into this new aspect from data collection and investigation point of view. As the number of IoT devices continue to grow, current open source tools and investigation techniques would serve as a strong foundation and provide reasonably easy ways for future applications.