

PROJECT PROPOSAL ON NEW GENERATION OF VEHICLE SECURITY

PROJECT OVERVIEW-

Security of our possessions is a necessity these days. Be it Home security, Job security, Money security, Vehicle security and many more. Vehicle Security would be the most important of the lot after Home Security. Vehicles are a huge time investment and them being stolen is a big loss. There were around 70000 vehicles stolen last year which is up almost by 26 percent from 2016. Even with new innovations and advanced technologies, the burglars find into the vehicle and steal them. This project proposal will address the issue, analyze it and come up with a simple and cheap solution.

AIM-

To analyze the methods used by burglars to breach security systems and how to tackle these methods to keep our vehicles safe.

RESEARCH QUESTIONS-

1. To analyze the methods used by burglars to breach security systems
2. An alternate approach to security
3. The advantages and disadvantages of this system

ANALYSIS-

To have a look at different ways how a vehicle can be stolen. As per reports most vehicles are stolen from private residences, which is done in a very short span of time [1].

It takes around 5 seconds to get into a vehicle and around a minute to drive away the car [2].

ALTERNATE APPROACH TO SECURITY-

As seen above in the ANALYSIS section, it takes 1 minute to break into a vehicle without any alarm buzzing. To tackle such steps we need a wireless, easy making, simple and an economical set-up to overcome this problem.

An Arduino paired with a PIR sensor used for sensing the intruder and a tilt sensor used for sensing the towing of car is the perfect solution. This small and easily disguised system can be placed at any door or window of the vehicle. If the intruder tries to break into the vehicle, the PIR sensor would send a notification to owner's phone who will get informed about the possible threats.

ADVANTAGES AND DISADVANTAGES-

ADVANTAGES-

1. This system will work all the time.
2. The burglar will have no idea about the system as it is easily concealed.
3. It is a low budget setup as compared to the advanced Vehicle Security System.
4. It has a spontaneous response.

DISADVANTAGES-

1. Numerous false alarms to be detected.
2. Charging each setup maybe laborious.

ANTICIPATED OUTPUT-

1. Owners will be less concerned towards their vehicles being robbed.
2. Rate of burglaries will decline.

REFERENCES-

- [1] http://www.police.vic.gov.au/content.asp?document_id=9562
- [2] https://www.youtube.com/watch?v=wBr5G_e4av4