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Use Of Aeronautical High Temperature And Heat Resistant Materials

R. Ashween
3rd Year Aeronautical Engineering
Nehru Institute Of Engineering And Technology
ashween97@gmail.com

ABSTRACT

- A Super Car is a kind of car that has a combination of aeronautical and artificial intelligence combined together in automobile industry
- The basic idea behind this concept is the use of aeronautical high temperature and heat resisting materials .

Keywords

- Super Car – A Car that has a combination of aeronautical and artificial intelligence.
- Alloy- Mixture Of two or more metals.
- Sensors – Any material used to indicate the presence of other materials.
- Super Computers – The Computers that acts upon itself judging the condition.

1. INTRODUCTION

A Super Car is a type of car that has a perfect aerodynamically shaped body with the car themselves aligning to traffic .

These are the cars that has the capacity to operate themselves without the need of drivers .

2. WORKING

- There are six sensors kept in four tires so as to measure the measure the speed of other nearby vehicles . The remaining two sensors are kept in the rear and front bumpers . This camera can rotate themselves to 180 degrees.
- There is a main sensor kept in the engine. This sensor mounted on the engine shaft is coated with stainless steel alloy . The use of this stainless steel alloy is that it is a high heat resistant material and further it is cost efficient.
- All these six sensors are connected to Super computers . These Super computers can generate the required speed at which the engine should run with the respect to other cars so as to maintain a proper coordination and to run smoothly.
- Further to start the engine the command is given by the humans.

3. ON BOARD SENSORS

- First of all, each individual platform will have to perform at least in parts autonomous navigation in difficult environmental scenarios where GPS reception might be prohibited by trees, or where visible light cameras may be of limited use, due to extremely homogeneous surfaces (snow), strong precipitation, or darkness. Moreover the deficits of these commonly used sensors pose challenges to the sensory system and related algorithms.
- Thus suggestion relying on a palette of complementary sensors, which the platforms are equipped with, along with dedicated fusion algorithms to be developed in the project.

4. FORMULA USED

In one complete rotation, angular distance

traveled is $2\pi$and time is time period (T) then, Angular Speed = $2\pi/T$

Angular speed $\omega=2\pi f$

where $1/T = f$ (frequency)

Therefore, linear speed

$V = r\omega$

R = Radius of the tire

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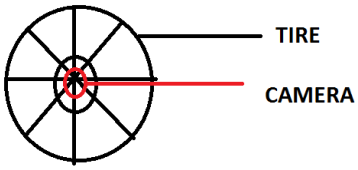
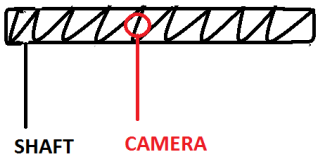
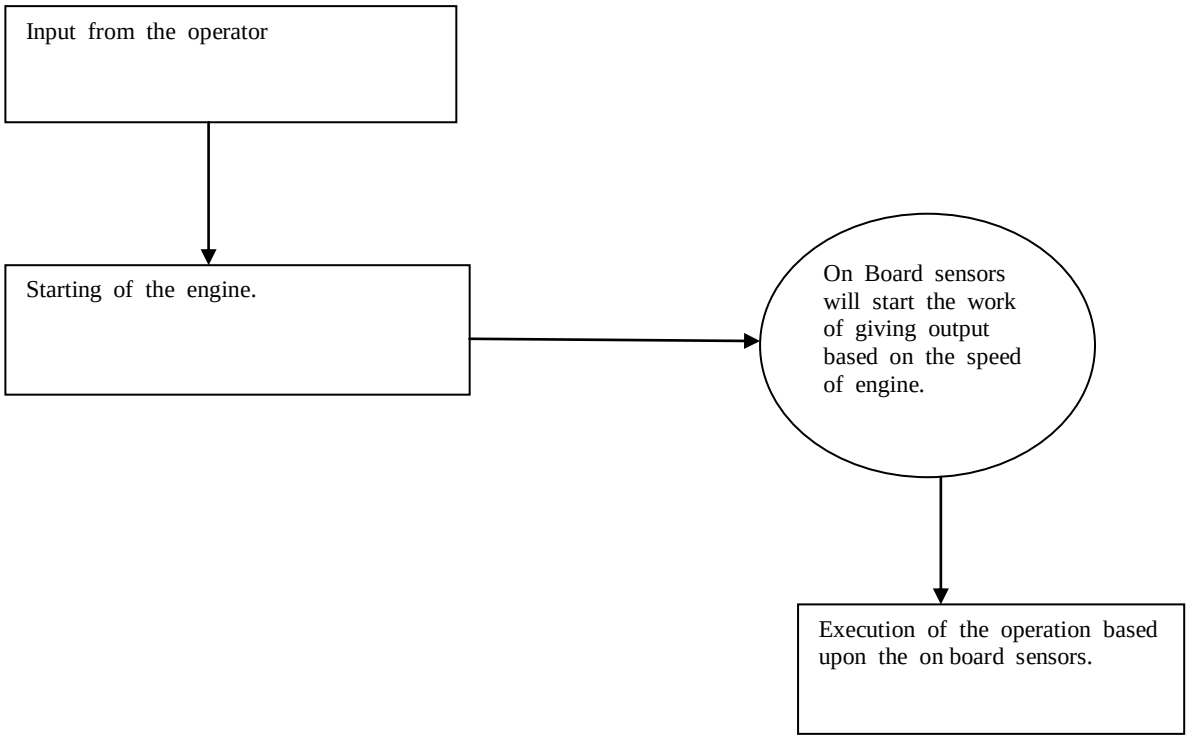




The schematic of the process is given below



5. CONCLUSION

With the concept of high temperature resistant materials and artificial intelligence the human efforts is being brought down . Super Computers don't do mistakes .

6. REFERENCE

[1] Concepts Of Physics by HC Verma .

[2] Elements of gas turbine engine by Jack D Mattingly.