



AUTONOMOUS CAR

GROUP E25

TEAM MEMBERS:-

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INTRODUCTION

- **10 million** autonomous vehicles will hit the roads by 2025.
- **in 10 years** fully autonomous vehicles will be the norm .
- Avs will generate a **\$ 7 trillion** annual revenue stream by 2050.
- Widespread adoption of Avs could lead to a **90% reduction** in vehicles crashes.

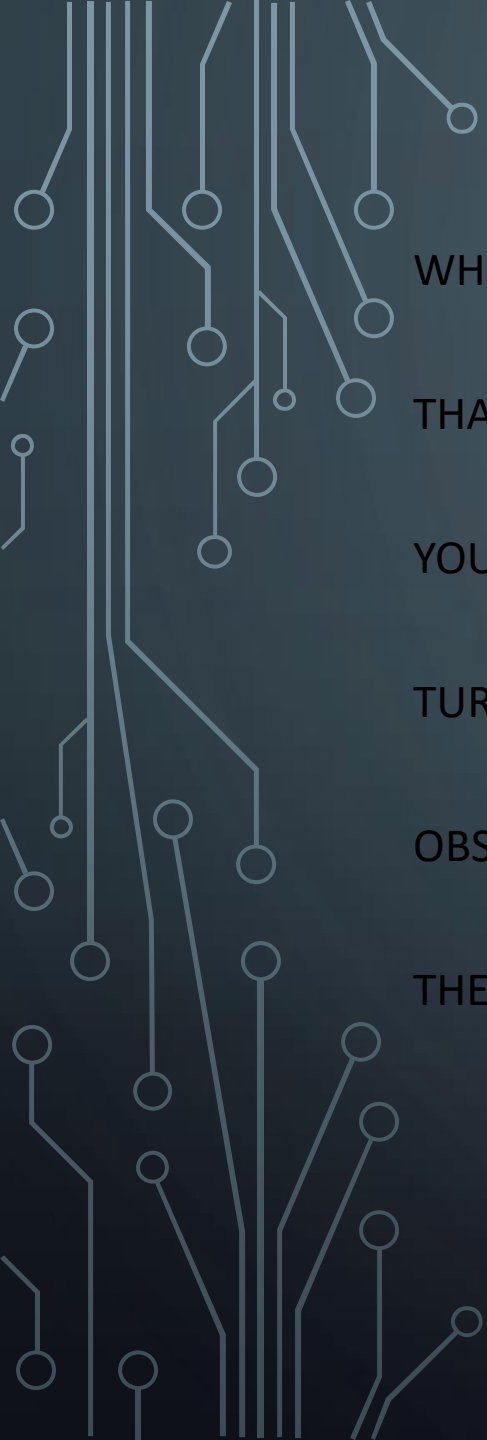
Self-Driven Car is a project comprised by a car chassis, two motorized wheels, one 360° wheel (non-motorized) and a few sensors. It is powered by a 9-volt battery using an (amit beyond education)connected to a mini breadboard to control the motors and sensors. When it is turned on, it starts driving straight forward. When it finds an obstacle ahead, it looks for both sides, and turn to the side where it has more free space. If there is no free space ahead or on both sides, it reverses the motors to drive backward.



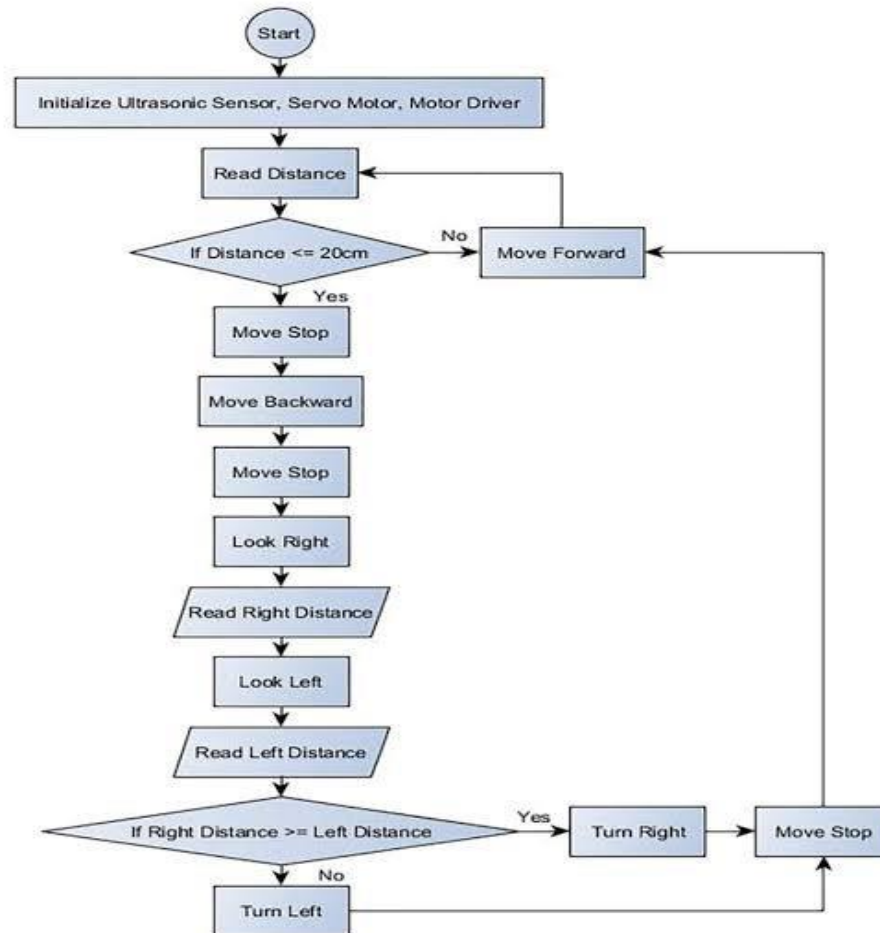


COMPONENT THAT WE USED

- ULTRASONIC HC- SR04
- SERVO MOTOR .
- L293D.
- MOTORS.
- CASTER WHEEL.
- CHASSIS

A decorative graphic on the left side of the slide, consisting of a network of white lines and small circles on a dark blue background, resembling a circuit board or neural network.

WHEN THE CAR IS PLACED ON THE GROUND, TURN ON THE SWITCH TO POWER IT. AFTER THAT, USE THE PLAY BUTTON ON THE REMOTE CONTROL TO START THE MOTORS. WHEN YOU NEED TO TURN IT OFF, PRESS THE PREV BUTTON ON THE REMOTE CONTROLLER AND TURN OFF THE SWITCH ON THE CAR. WHILE IT IS ON, IT KEEPS DRIVING AND AVOIDING OBSTACLES, HOWEVER, IT IS IMPORTANT TO PREVENT IT FROM GOING TO PLACES WHERE THERE ARE STAIRS OR HOLES.



FLOWCHART