

# Autonomous line-following car for Mercedes Benz

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## Intro

In this project I will make an autonomous line-tracking car. The car is a prototype for the Mercedes Benz museum. Once done, the car will be able to perform the following actions:

1. Follow a white line
2. Detect obstacles in it's way using a HC-SR04 sensor
3. Detect if it has collided with anything
4. Show the battery voltage through a RGB-led indicator
5. Show the status of the vehicle through 4 different leds
6. It'll have a startup-tune
7. Web interface (grafana)
8. It'll also be able to stop at a traversal line at which point it either starts driving after 5sec or after the pressing of a button.

For more information have a look at the following recources of mine:

1. [Tutorial](#)
2. [Components List](#)
3. [Code explanation](#)
4. [Arduino Code](#)
5. [PCB and Schematic](#)
6. [Images](#)
7. [Example Route Files](#)
8. [Body Plate Image](#)
9. [PDF Files of All the Markdown Files](#)