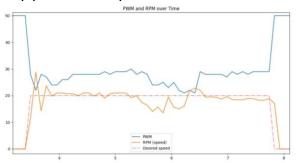
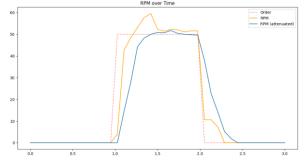
For automatic enthusiasts!

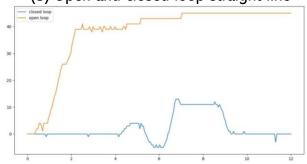
(1) Control loop of the backward motion



(2) Correction of the wheels grip



(3) Open and closed loop straight line









https://github.com/ErAzZeD/TrailerMate

TrailerMate

The best ally for truck drivers



Presented by Jason Team

Abdessamad Amadar Malaurie Bernard Sarah Bobillot Emilie Fraumar Killian Gonet Réda Kharoubi Antonin Laborde-Tastet







Step 2: Obstacle detection

With the **ultrasound sensors**, the trailer stops 20 cm before hitting an obstacle.

Step 4: Wheel improvement

Wheels' adherence and steering control loop are improved.

Figure 2



Step 6: Record and replay

An open loop sequence of movements is **recorded and stored**. It can then be replayed at any time.

Step 1: Android application

You can see the state of the different sensors via the Android application. You also can communicate with the car by clicking on the button.



Step 3: Autonomous forward and backward movement

A control loop implementation allows to move forward or backward at a desired speed despite of perturbations.

Figure 1

Step 5: Reverse straight line

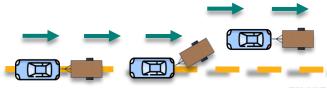


Figure 3

