CarGate

Projet 5A SIEC

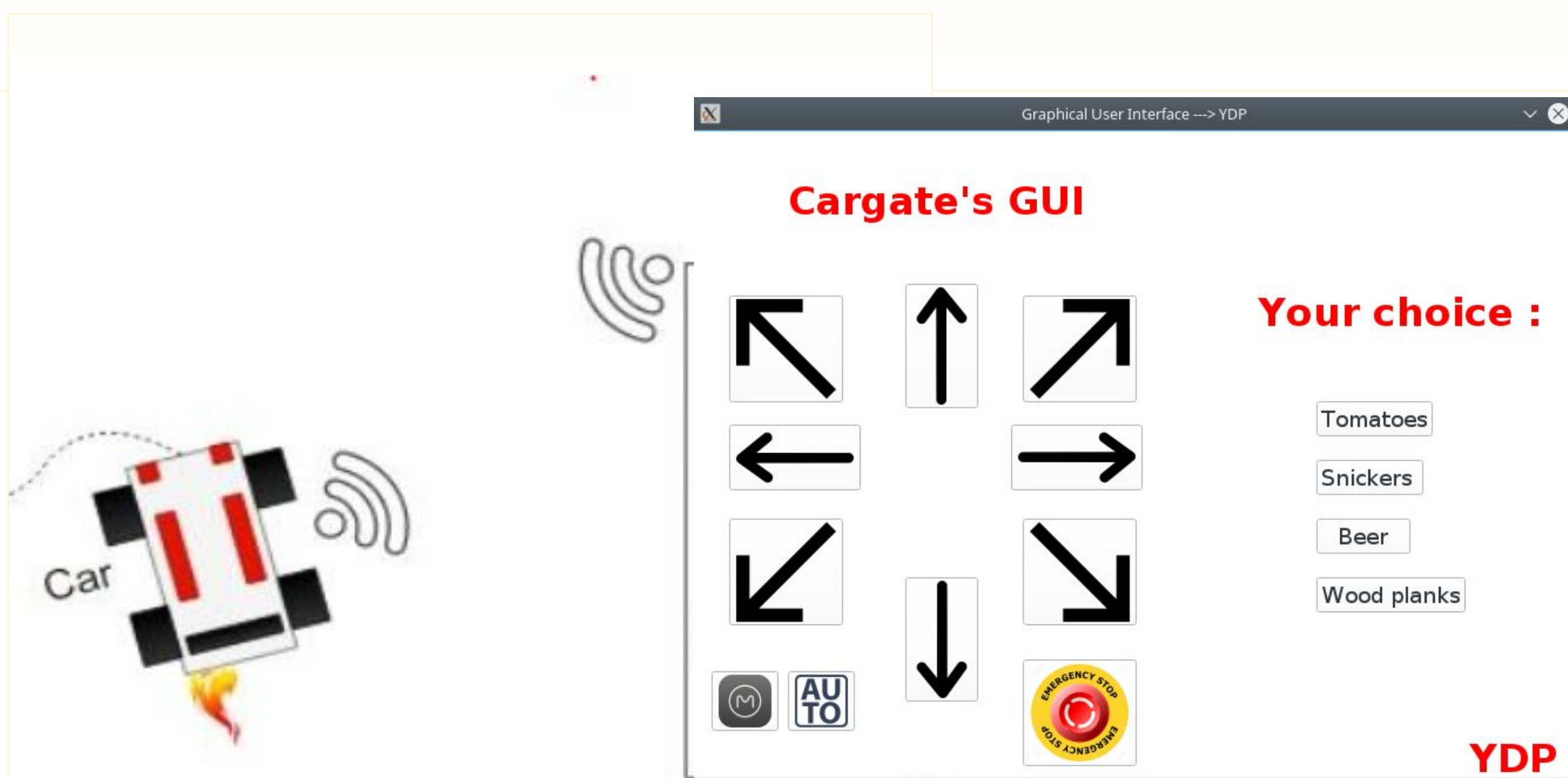INSTITUT NATIONAL DES SCIENCES APPLIQUÉES TOULOUSE

With the help of state-of-the-art technologies, our car is able to navigate through your warehouse while delivering goods to the right aisle
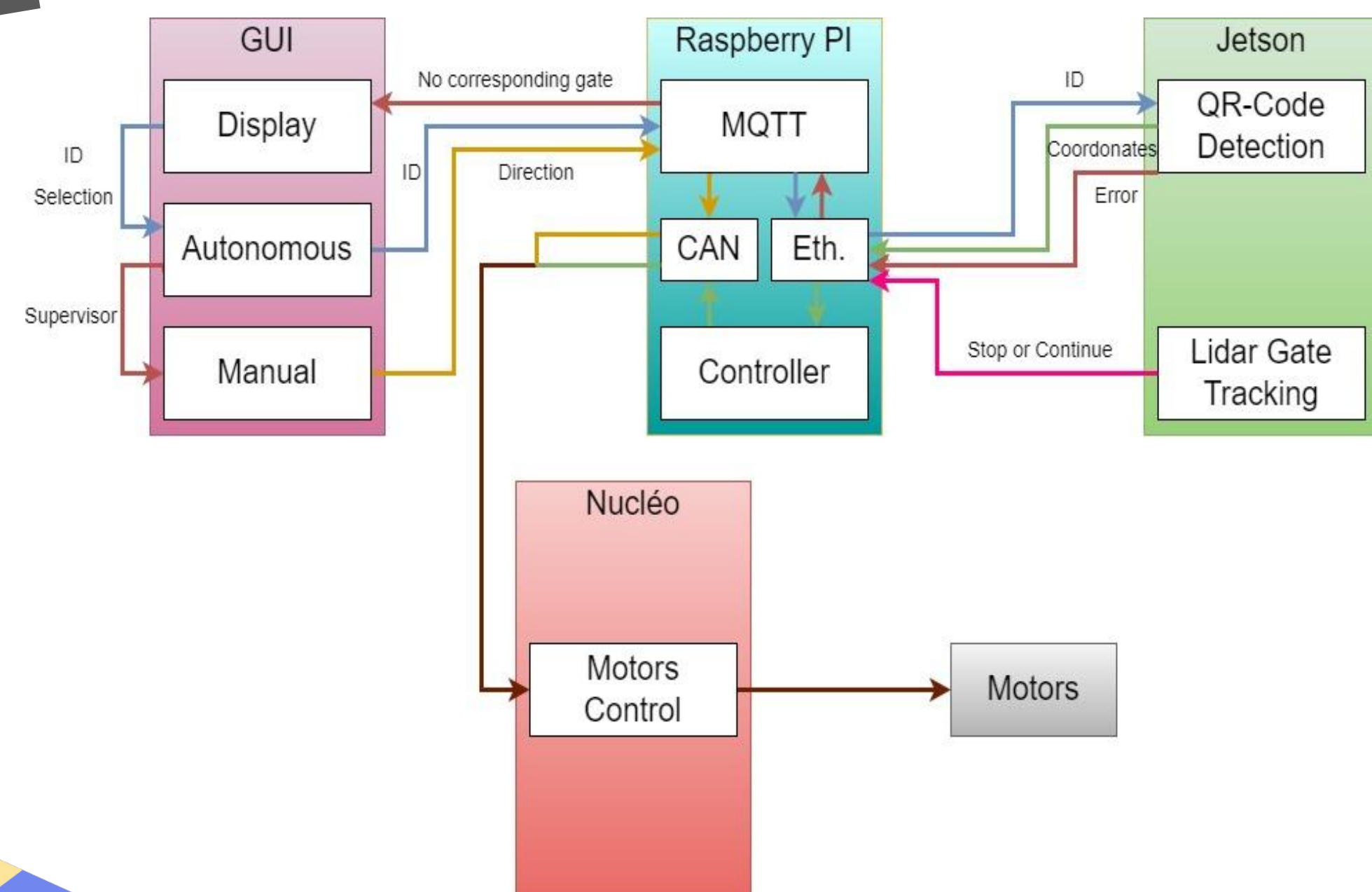
Gate Detection System

Detect gates by using a QR-codes processing algorithm

Cargate's GUI

Your choice :

Tomatoes
Snickers
Beer
Wood planks

Graphical User Interface ---> YDP

Car

YDP

Anti-Blocking System

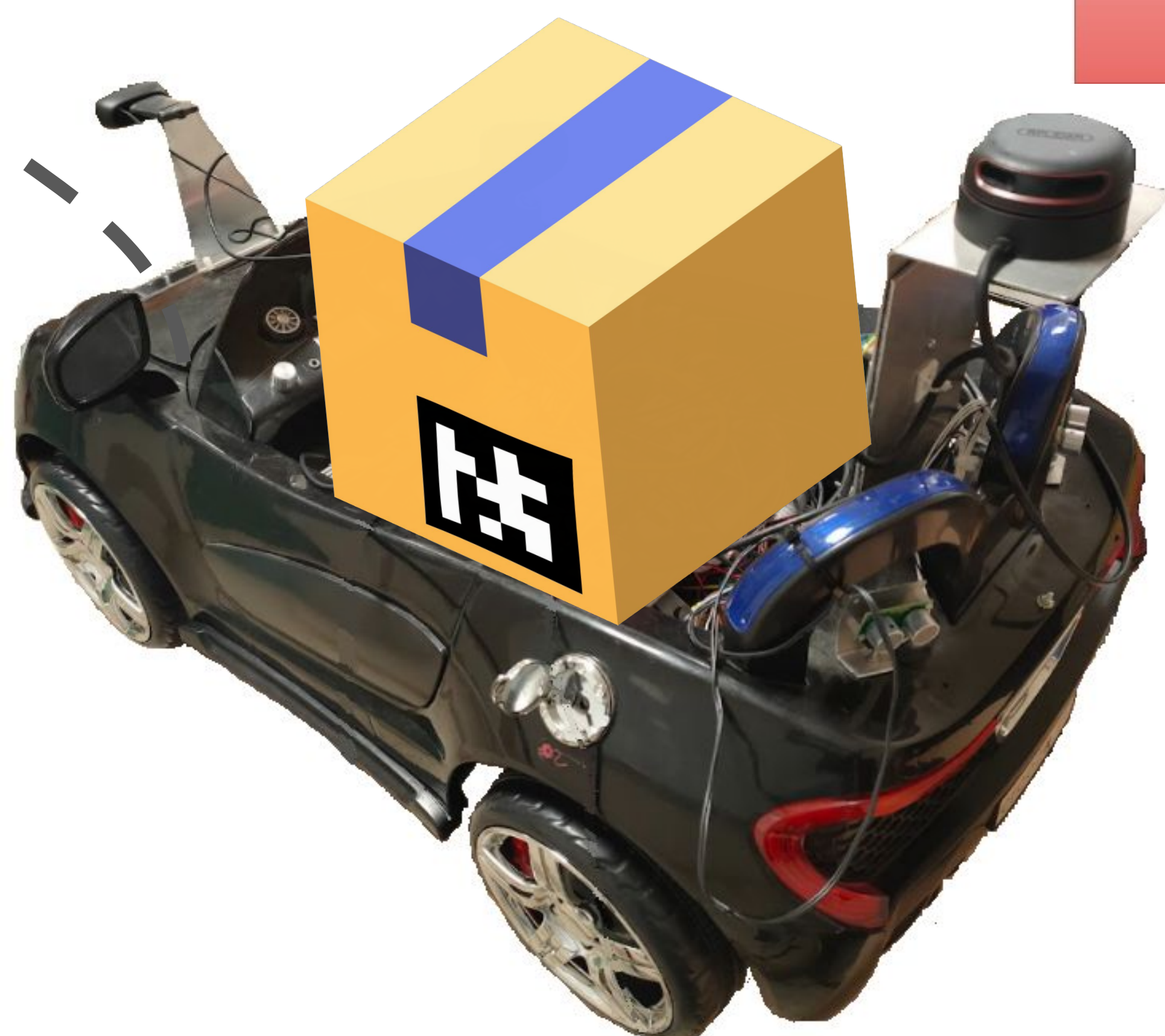A switch, from autonomous to manual, has been implanted in the GUI, in case the car does not detect the right QR-Code.

Our Solution

Trajectory Calculation

The trajectory is controlled by using the QR-Code detection algorithm and the Lidar Tracking program.

Technical Choices

MQTT

NVIDIA JETSON

RPLIDAR A2

ROS

Future Upgrades

- Integrate GPS localisation
- Dynamic QR-Code database

Learn More!

GITHUB

Website

YANKEE-DOODLE-PIGEON : Nidishlall BURTON, Asma CHOUIYA, Asmae EL HACHIMI, Axel MARTY, Nicolas PIQUES, Maxime RAMIARA