

Intelligent RC cars

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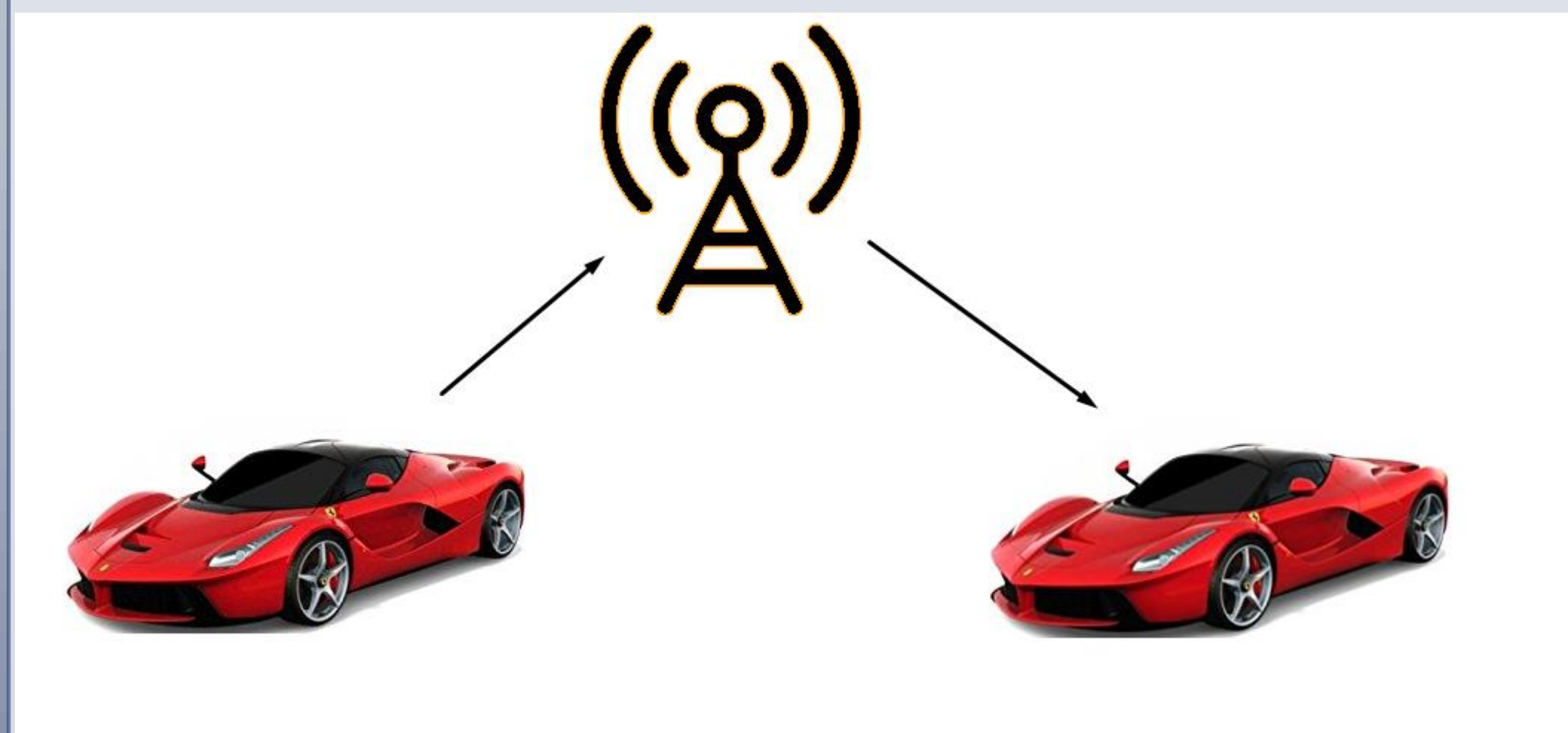
Wouldn't the roads be a safer place if cars would brake whenever other cars break? The future to strive for is in cars that can communicate with each other.

Inleiding



Our goal is to make RC-cars communicate with each other via an access point while they are driving. The car should give a signal to an access point and the access point distributes the signal to the other cars nearby.

Wat willen we bereiken



We used LaFerrari RC-cars and modified them with H-bridges and NodeMCU's. For measuring voltage on the RC-car, a multimeter was used and we could find which pins activate the DC-motor of the car. The H-bridge is used for connecting the DC-motor with the NodeMCU so that the motor can easily be used to rotate forward and backward. With the Arduino IDE, we can easily select the correct Arduino module that we are using and write the code for the NodeMCU. The access point we are using is a ubuntu server with a separate access point. For the package transport we use UDP-packages for the fast transport.

Tekst en afbeeldingen Materials methods

Onze resultaten van metingen

Wat hebben we bekomen en waarom is dat zo

Gebruikte referenties