

Brno Technology University

Microprocessor Techniques and Embedded Systems' Semester Project

Autonomous Car

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Brno 2018

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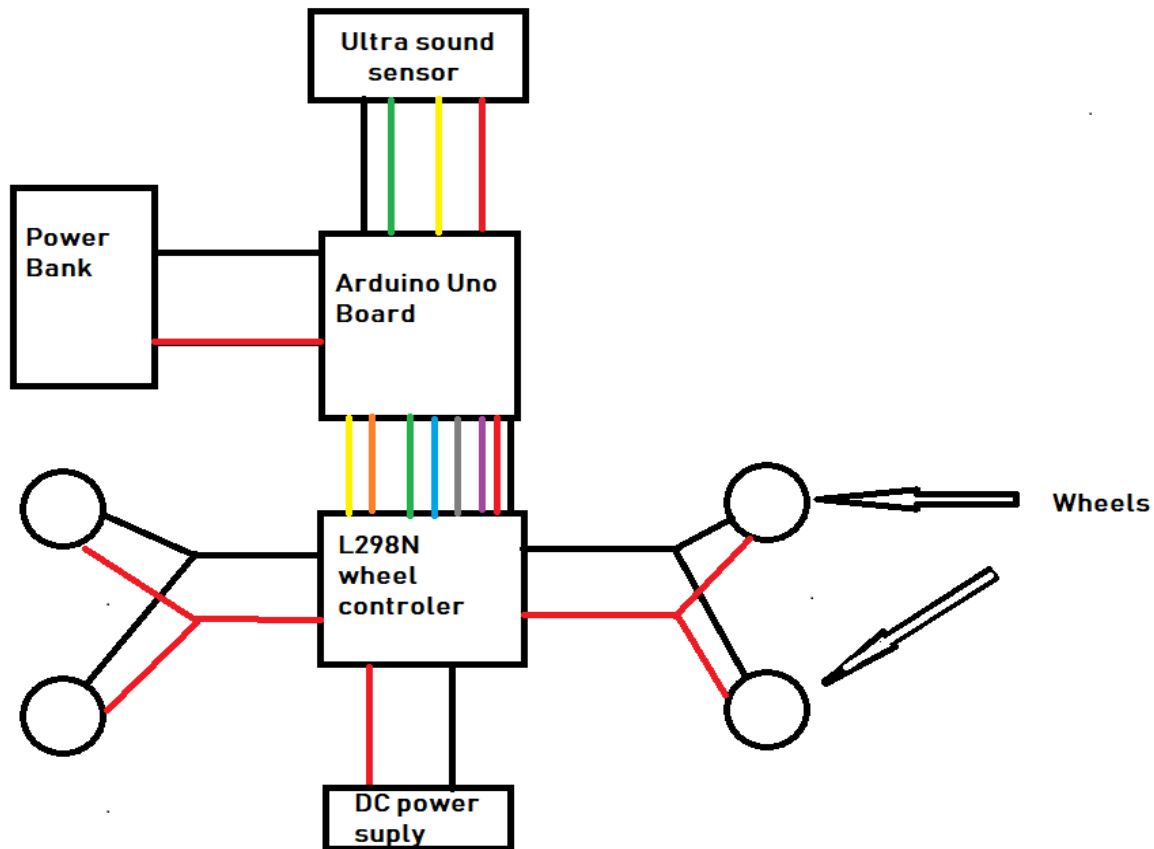
Idea

Create car controlled by ultrasound sensor, which try to avoid barriers: walls, chairs and etc.

Details

| | Detail |
|---|---|
| 1 | Arduino Uno board (ATmega328/P) |
| 2 | Wires |
| 3 | 2x Ultra sound sensors SRFxx |
| 4 | Power bank |
| 5 | DC power supply |
| 6 | Four-wheel model with DC motors and drivers |

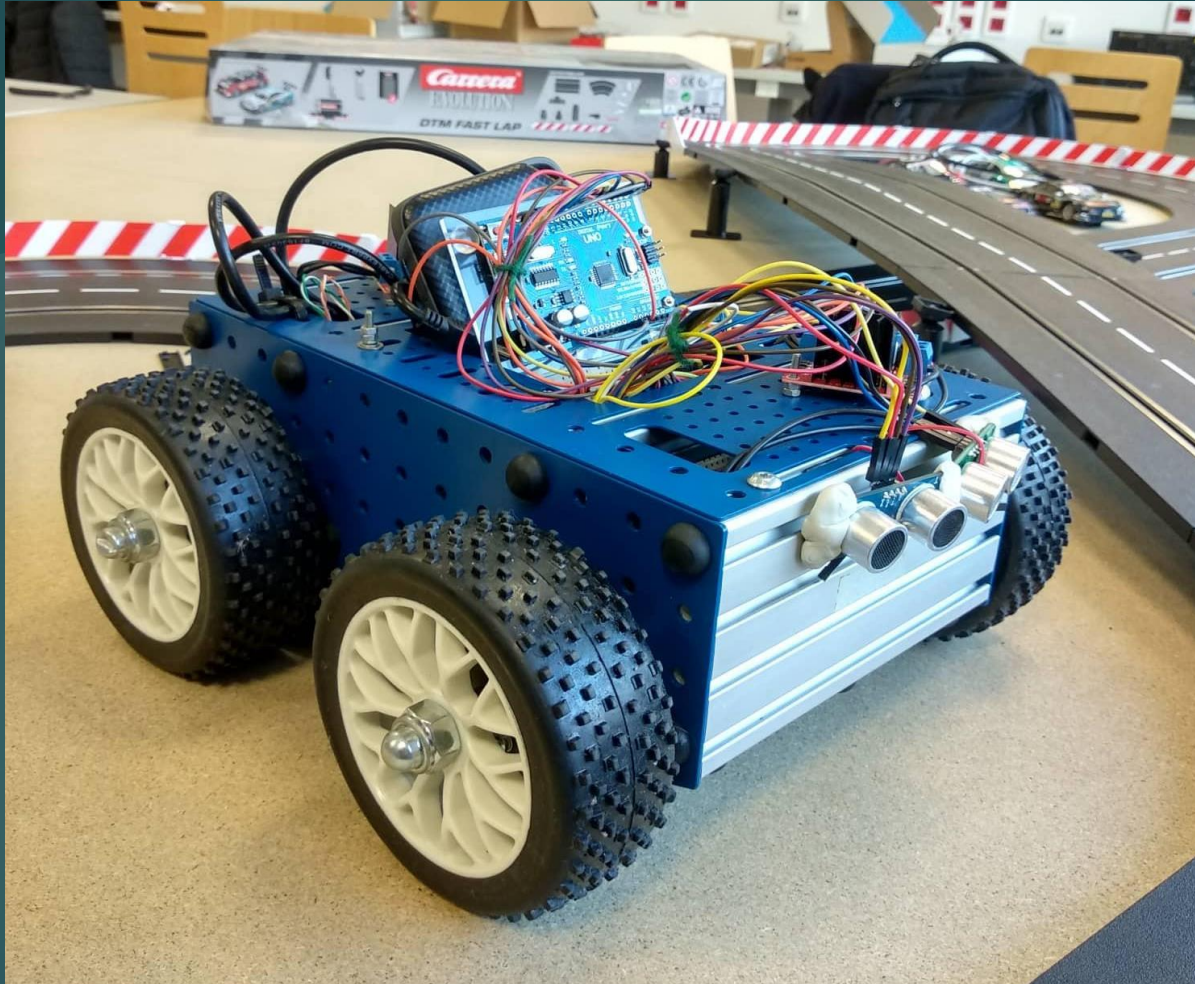
Scheme



Developing

We used C programming language. Code takes about 200 lines.

Car



Result

We constructed the car, which works properly. Car rides, when it face with barrier, it stops, go back, and turn in other side, and continue ride.