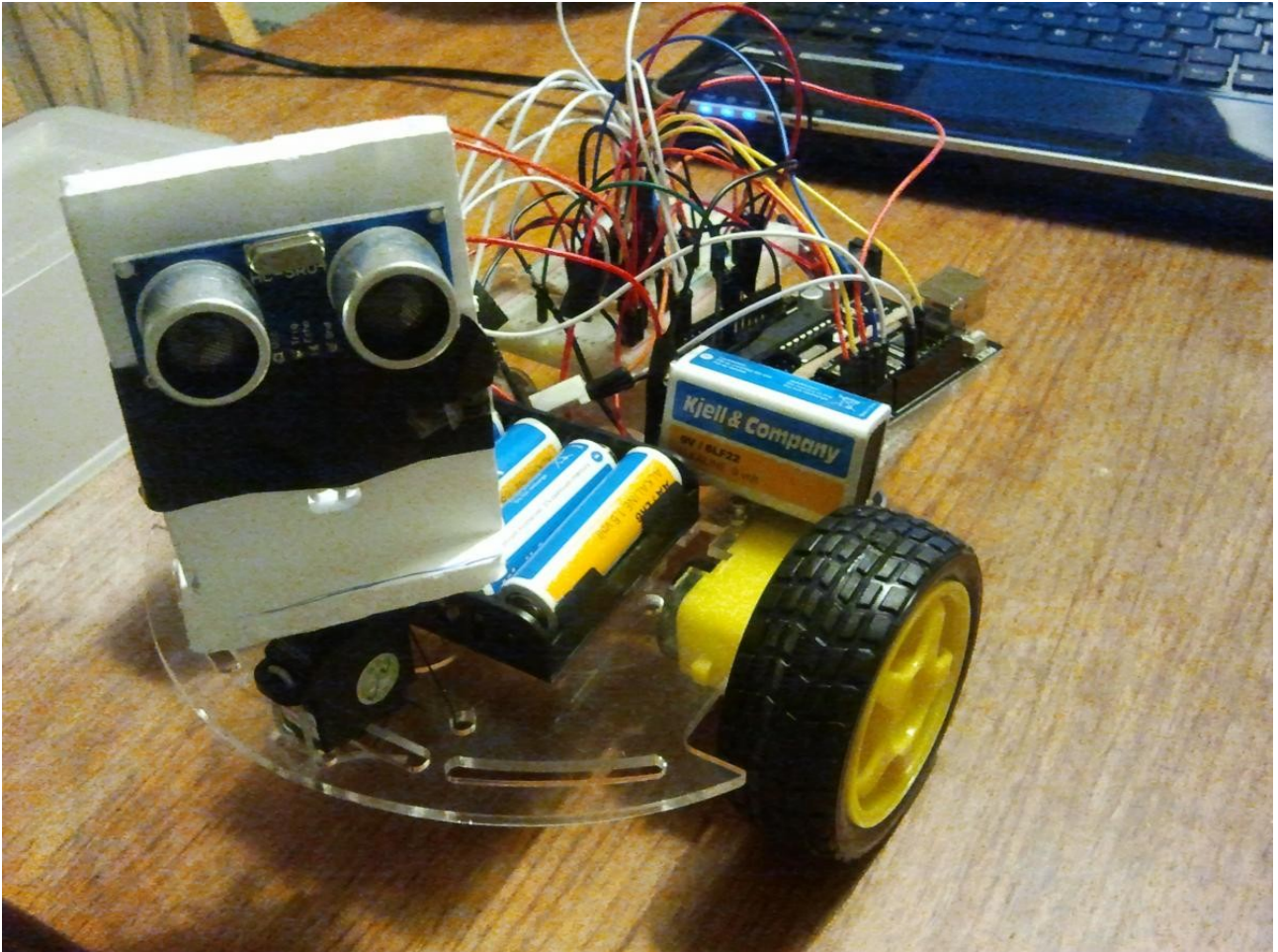


# Robot with no name

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This was my first robot made with Arduino summer 2014.

Together with Martin Blom this was made into a 7 week school project at the Bild & form school in Gothenburg.

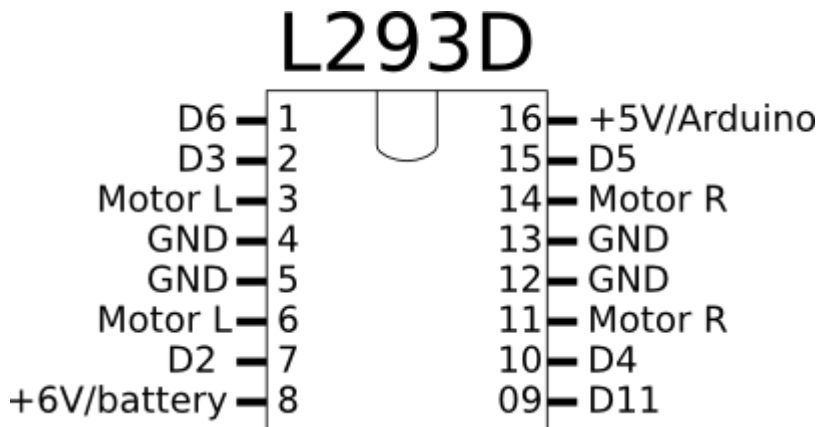
## Equipment

- simple robot kit from ebay (chassis, two wheels with motors, battery holder for 4xAA)
- Arduino Uno
- H-bridge: L293D
- 9V battery snap for Arduino
- ultrasound distance sensor SR03
- (micro) servo motor
- 100 $\mu$ F (electrolytic) capacitor
- breadboard
- wires
- glue, tape, etc

# Schematics

## Motor control

This is how you control the motor with the H-bridge:



## Sensor

The SR03 has four lines:

- VCC -> Arduino +5V
- Trig -> D19 (Analog A5)
- Echo -> D18 (Analog A4)
- GND -> Arduino GND

## Servo

The servo has one control line:

- Red -> Arduino +5V
- White (control) -> D10
- Black -> Arduino GND

Place the capacitor across the +5V and GND of the servo to smooth out the voltage.