

# Pocket League

# Dagens plan

Intro

Building

Lunch, Pizza order may be possible

Building

# Controlleren

## Parts

- Arduino
- Radio module
- Buttons



# Car

## Parts

- Arduino
- Radio module
- Motor controller (H-bridge)
- (*Servo motor*)



# Where to start?

Build the car  
(mainly soldering)

Program the controller and  
car

## POCKET LEAGUE - Instructable

### Step 1:

Solder header pins and ic socket on both PCB (green cards)



Solder ic socket on the motor driver spot

### Step 2:

Solder male to male pins to battery connector.

```
Robot_kontroller_v1 | Arduino 1.8.1
Rüdiger Simon Vetter Høpø

Robot_kontroller_v1

#include "RF24.h"

// V A R I A N T E N
int sendKarray[4];

int sendKarray2[4];

// S T I M M
int pinLeft = 2;
int pinRight = 3;
int pinUp = 7;
int pinDown = 5;
int pinTrigger = 4;
int pinTrigger2 = 6;

RF24 radio(9, 10);

const uint64_t pipe = 0xDEDEDEDEDEDEDE; // Needs to be the same for communicating between 2 NRF24L01

void setup(void) {
  Serial.begin(9600);
  Serial.println("Startup");

  pinMode(pinLeft, INPUT_PULLUP);
  pinMode(pinRight, INPUT_PULLUP);
  pinMode(pinUp, INPUT_PULLUP);
  pinMode(pinDown, INPUT_PULLUP);
  pinMode(pinTrigger, INPUT_PULLUP);
  pinMode(pinTrigger2, INPUT_PULLUP);

  if (!radio.begin()) {
    Serial.println("begin failed!");
  } else {
    Serial.println("radio started!");
  }
}

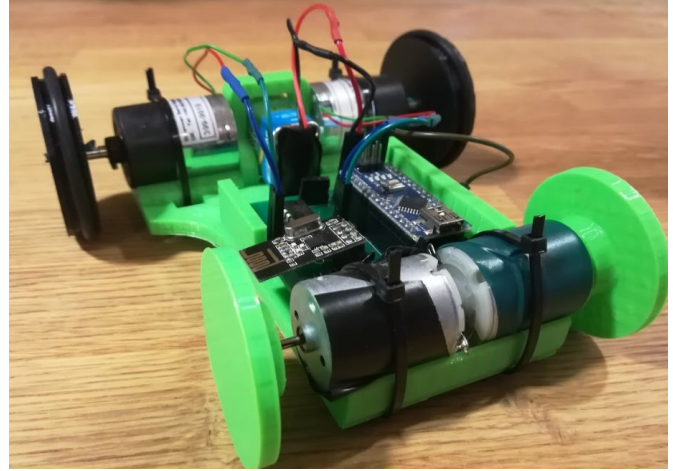
loop
```

# End result

We encourage everyone to make their own twist on the car

More resources:

[https://github.com/MAKENTNU/Pocket\\_League](https://github.com/MAKENTNU/Pocket_League)



# Tomorrow



**MAKE** NTNU