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/* Transmitter code for the Arduino Radio control
with PWM output
* Install the NRF24 library to your IDE
* Upload this code to the Arduino UNO, NANO, Pro
mini (5V,16MHz)
* Connect a NRF24 module to it:
```

```
Module // Arduino UNO,NANO
```

GND	->	GND
Vcc	->	3.3V
CE	->	D9
CSN	->	D10
CLK	->	D13
MOSI	->	D11
MISO	->	D12

This code transmits 7 channels with data from pins
A0, A1, A2, A3, D2 and D3

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```
*/
```

```
#include <SPI.h>
#include <nRF24L01.h>
#include <RF24.h>
```

```
const uint64_t my_radio_pipe = 0xE8E8F0F0E1LL;
```

//Remember that this code should be the same for the receiver

RF24 radio(9, 10); //Set CE and CSN pins

// The sizeof this struct should not exceed 32 bytes

struct Data_to_be_sent {

byte ch1;

byte ch2;

byte ch3;

byte ch4;

byte ch5;

byte ch6;

byte ch7;

};

//Create a variable with the structure above and name it sent_data

Data_to_be_sent sent_data;

void setup()

{

radio.begin();

radio.setAutoAck(false);

radio.setDataRate(RF24_250KBPS);

radio.openWritingPipe(my_radio_pipe);

```

//Reset each channel value
sent_data.ch1 = 127;
sent_data.ch2 = 127;
sent_data.ch3 = 127;
sent_data.ch4 = 127;
sent_data.ch5 = 0;
sent_data.ch6 = 0;
sent_data.ch7 = 0;
}

/*****/

void loop()
{
    /*If your channel is reversed, just swap 0 to 255
    by 255 to 0 below
    EXAMPLE:
    Normal:    data.ch1 = map( analogRead(A0), 0,
    1024, 0, 255);
    Reversed:  data.ch1 = map( analogRead(A0), 0,
    1024, 255, 0);  */

    sent_data.ch1 = map( analogRead(A0), 0, 1024, 0,
    255);
    sent_data.ch2 = map( analogRead(A1), 0, 1024, 0,
    255);

```

```
    sent_data.ch3 = map( analogRead(A2), 0, 1024, 0,
255);
    sent_data.ch4 = map( analogRead(A3), 0, 1024, 0,
255);
    sent_data.ch5 = digitalRead(2);
    sent_data.ch6 = digitalRead(3);
    sent_data.ch7 = map( analogRead(A4), 0, 1024, 0,
255);

    radio.write(&sent_data, sizeof(Data_to_be_sent));
}
```