```c
#ifndef F_CPU
#define F_CPU 16000000UL
#endif
#include <avr/io.h>
#include <util/delay.h>
#include <avr/interrupt.h>
#include <stdlib.h>
#include <string.h>
#include <stdbool.h>
#include <stdint.h>

#include "nrf24.h"

void initIO();

int main(void)
{
    //sei();    // Interrupts on
    initIO();
    nrf24_initRF_SAFE(MAIN_BOARD, RECEIVE); // CONNECTION TO MAIN BOARD : GENERAL RF CHANNEL 112

    while (1)
    {
        if(nrf24_dataReady())
        {
            nrf24_getData(command_buffer);
            CommandStatus status = DecomposeMessageFromBuffer();
            if (status==SUCCESFUL_DECOMPOSITION) { HandleAvailableCommand(); } else
            {
                bit_flip(PORTD, BIT(7)); _delay_ms(250); bit_flip(PORTD, BIT(7));
            }
        }

        if (nrf24_checkAvailability()==false) { nrf24_initRF_SAFE(MAIN_BOARD, RECEIVE); }
    }
}


void initIO(){
    /*
        Input/Output pin initialization
        1 : OUTPUT | 0 : INPUT | 0b76543210 Bit order
        ATTACHMENTS
            RELAY 0     : PD3               |   OUTPUT
            RELAY 1     : PD2               |   OUTPUT
            RELAY 2     : PD6               |   OUTPUT
            RELAY 3     : PD5               |   OUTPUT
            RED LED     : PD7               |   OUTPUT
            GREEN LED   : PB0               |   OUTPUT
```

```
50          nRF24L01
51              CE   : PC0                       |   OUTPUT
52              CSN  : PC1                       |   OUTPUT
53              MISO : PD0 (MSPIM MISO ATMEGA)   |   INPUT
54              MOSI : PD1 (MSPIM MOSI ATMEGA)   |   OUTPUT
55              SCK  : PD4 (MSPIM XCK)           |   OUTPUT
56      */
57      DDRD = 0b11111110;
58      DDRB = 0b00101001;
59      DDRC = 0b11011111;
60  }
61
62
63
64
65
66
```