

Ovidiu-George PAIU (67392) - Connect Four

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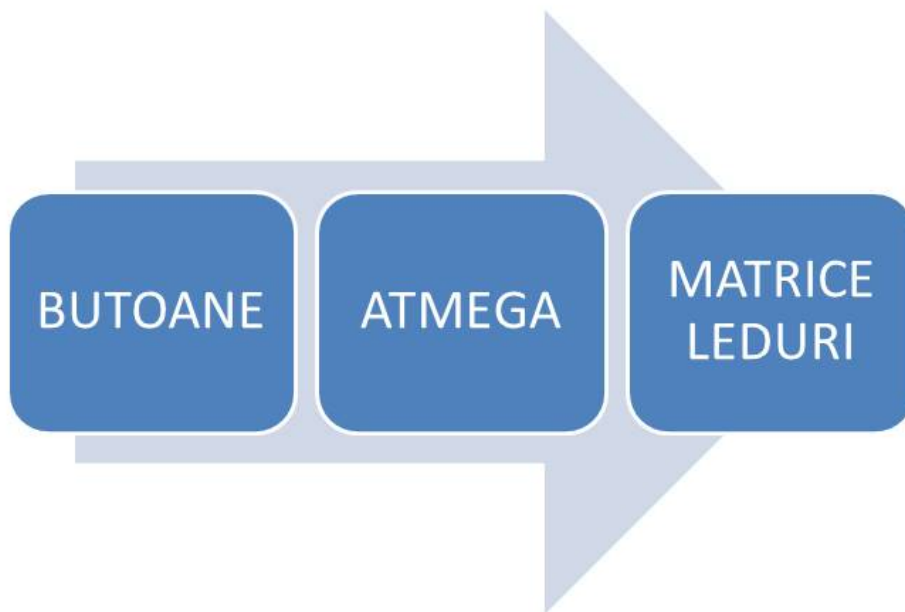
Introducere

Prezentarea pe scurt a proiectului :

“Connect Four” / “In a Row” este un joc in doi in care fiecare player isi alege culoarea si trebuie sa realizeze pe o linie 4 culori consecutive (diagonala/orizontala/verticala). Jocul este o matrice de leduri si atunci cand se apasa butoanele se aprin ledurile.

https://en.wikipedia.org/wiki/Connect_Four

Descriere generală

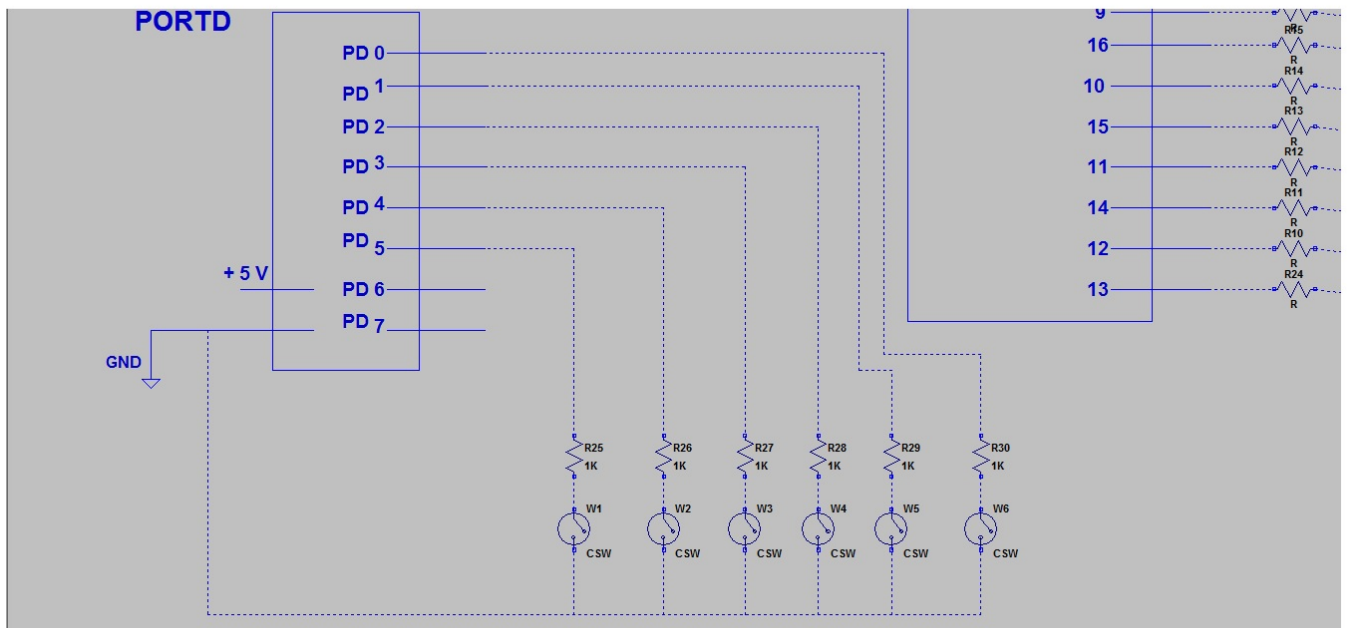
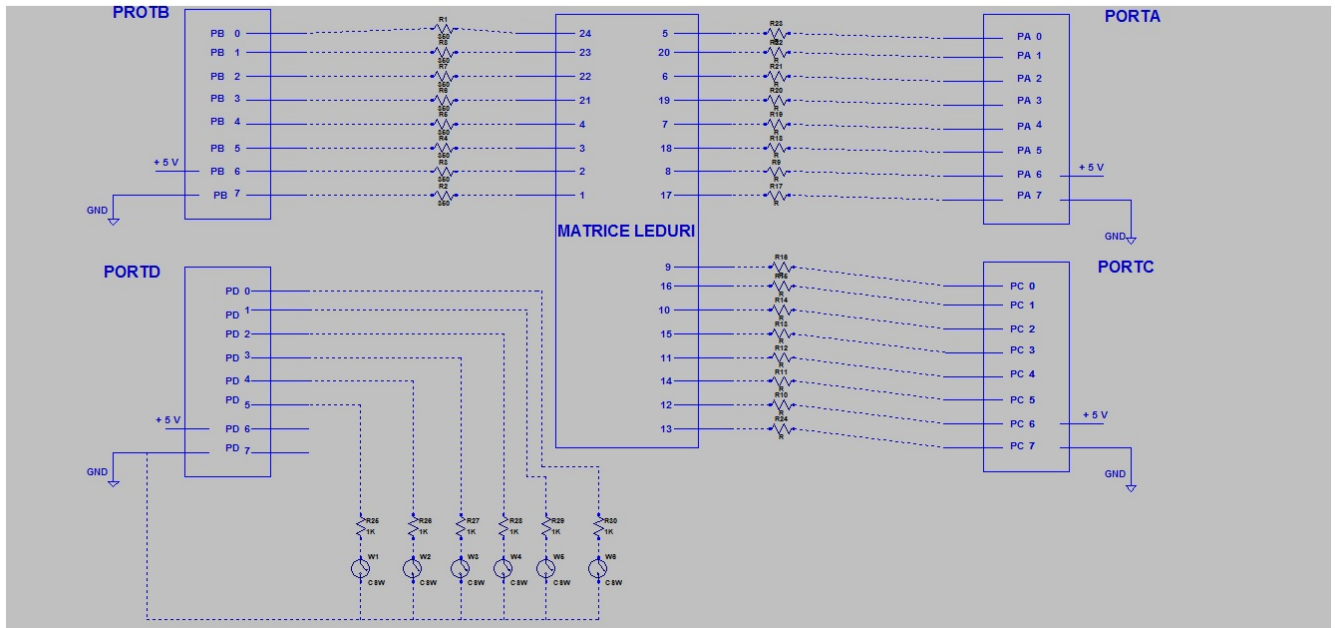


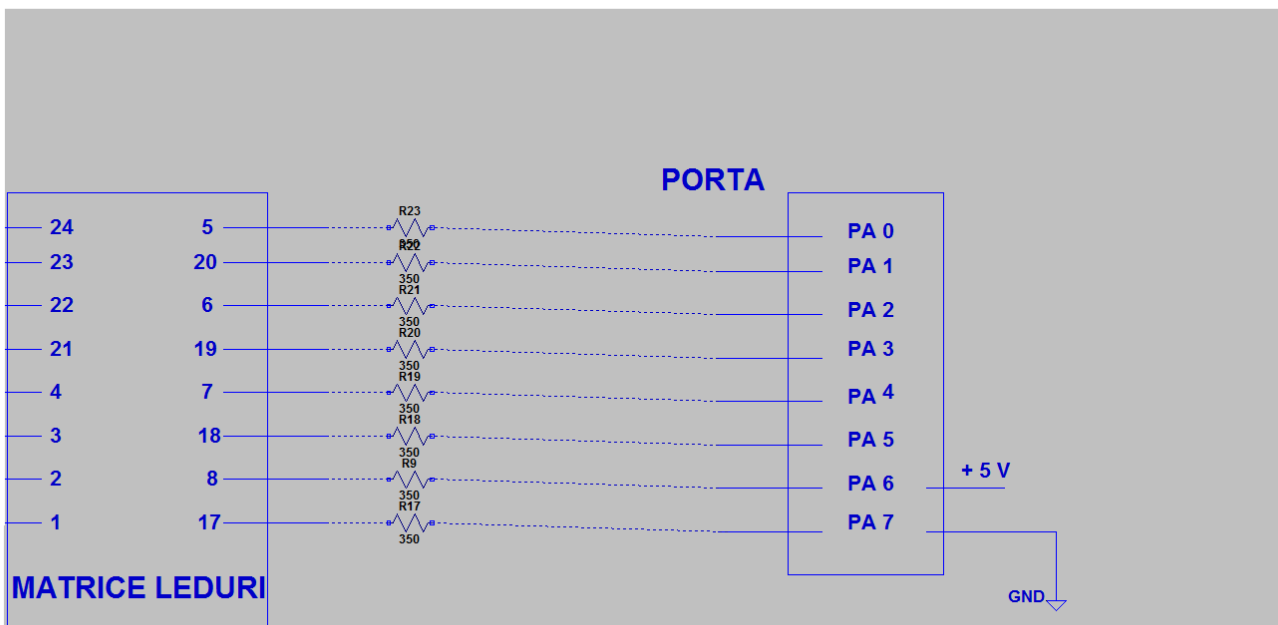
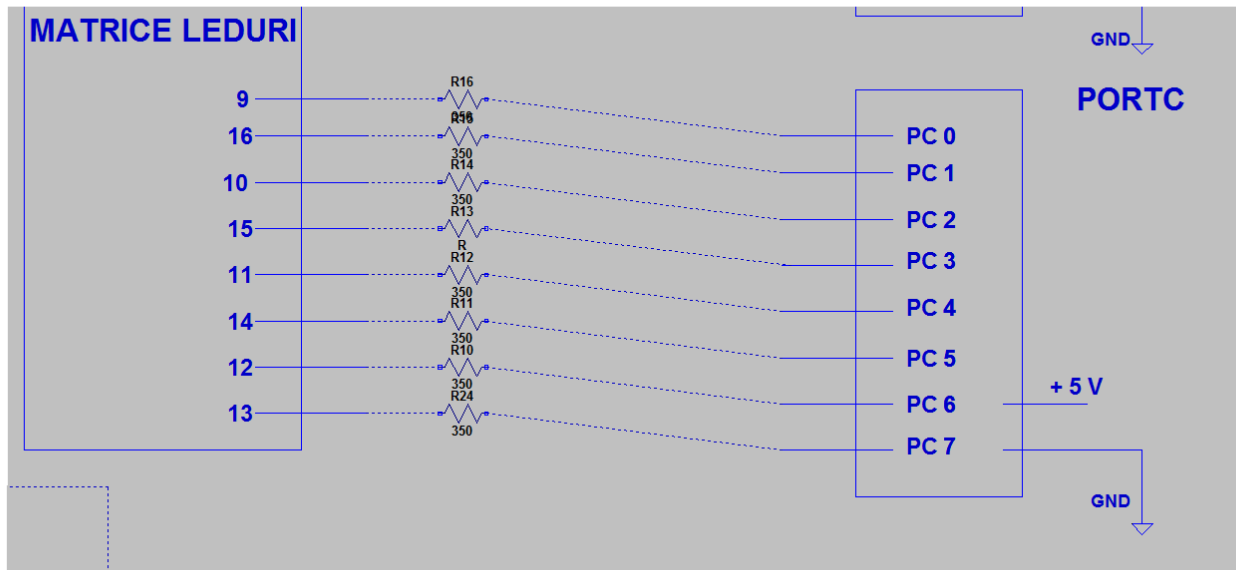
Hardware Design

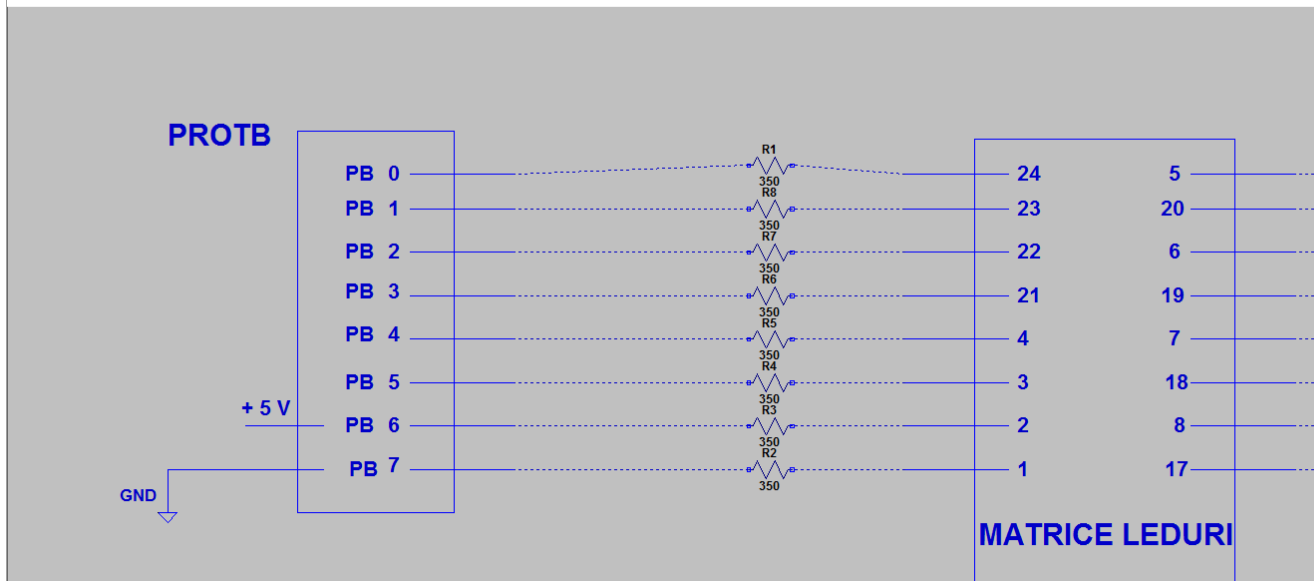
Lista de Piese

1. Placa de baza
2. Placa secundara 18(cm) X 30(cm)
3. Matrice de leduri
4. 5 Butoane
5. 42 Leduri bicolore
6. Fire de legatura 50
7. Rezistente : 24 R - 330 Ω , 6 R - 1000 Ω

Schema Electrica :

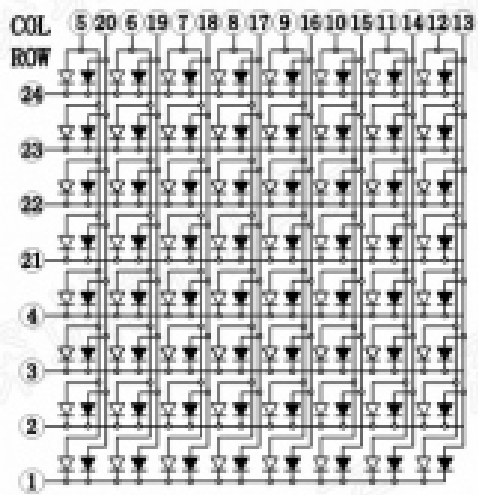
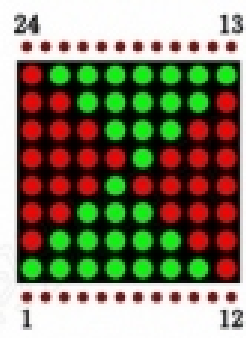
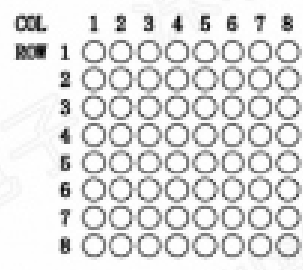
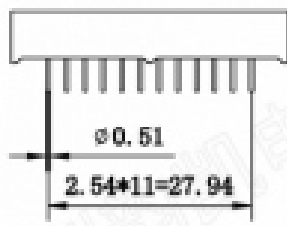
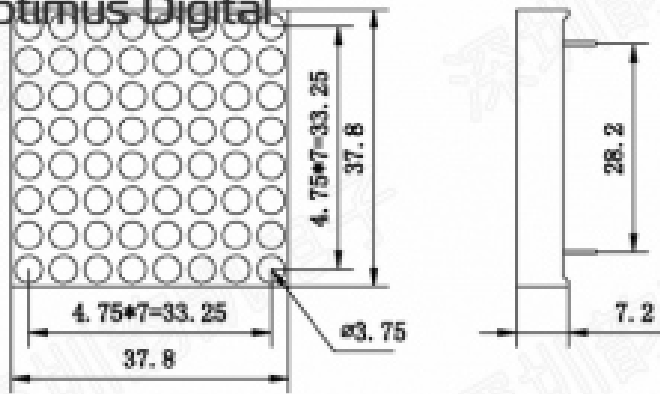








Optimus Digital



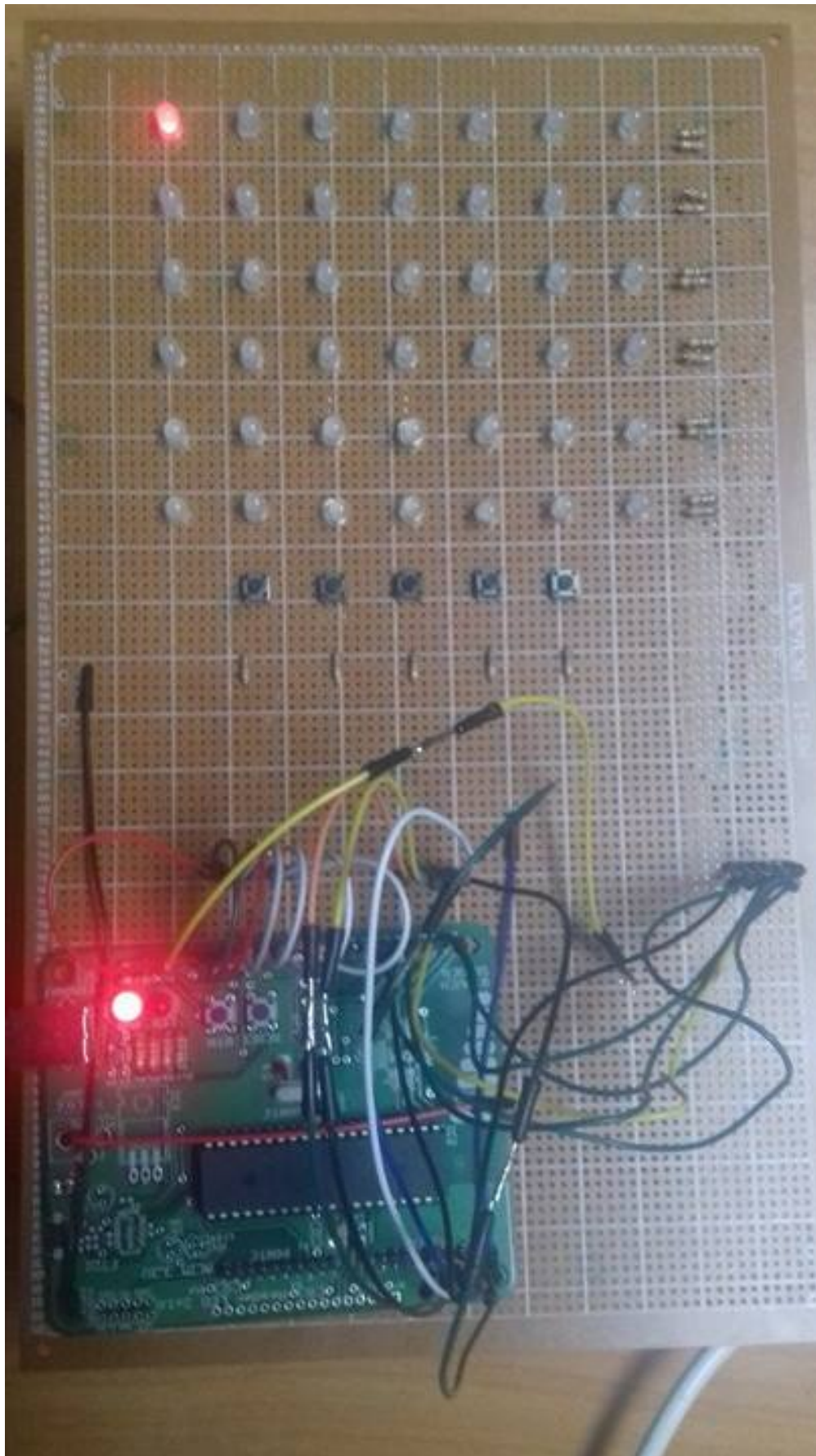
→ GREEN ← RED

Software Design

Am pornit de la laboratorul 0:

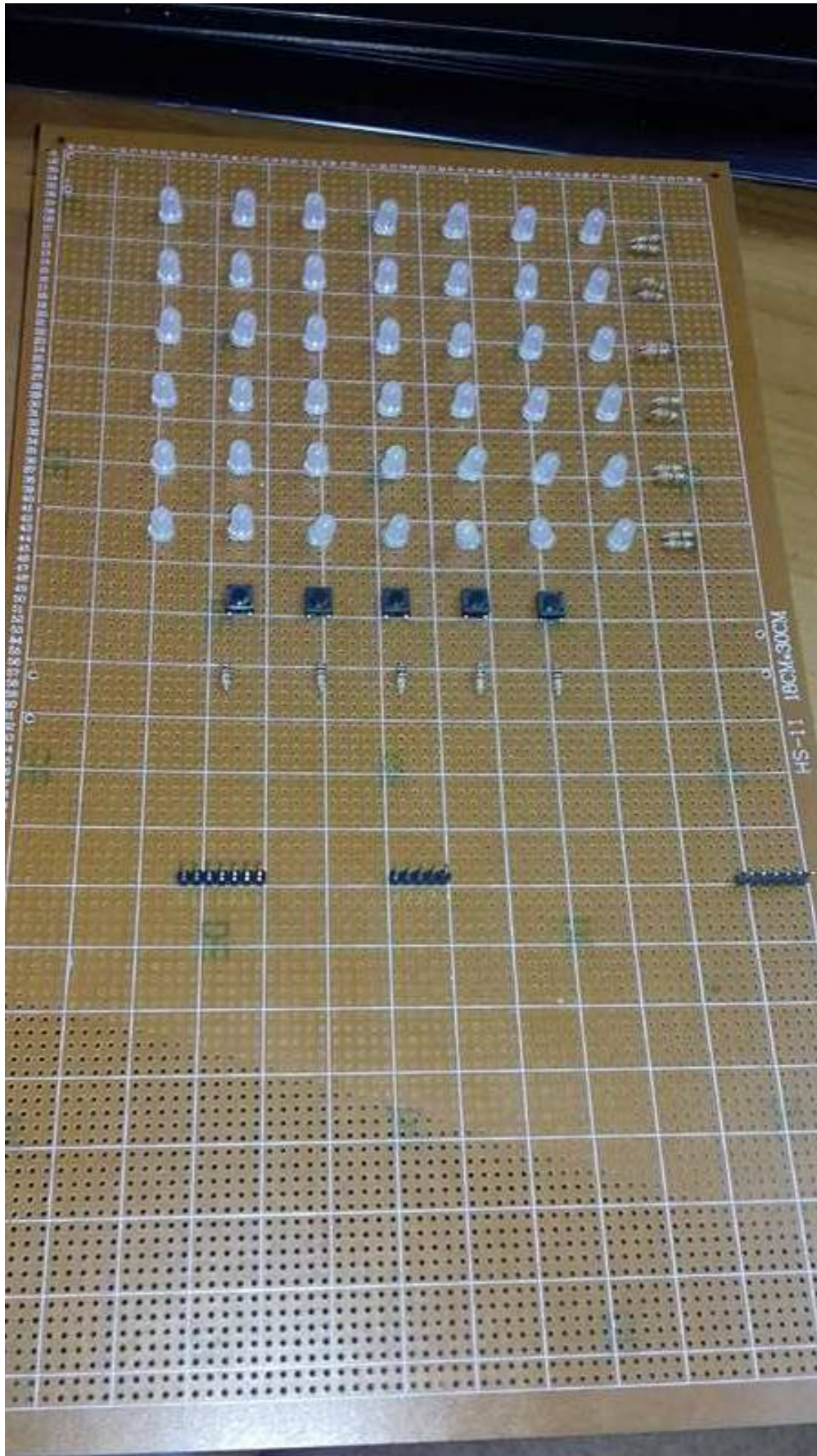
```
#define F_CPU 16000000
#include <avr/io.h> #include <util/delay.h>
#define DELAY_SECVENTA 250 #define NUM_SECVENTE 6
#define MORSE_LUNG 150 #define MORSE_SCURT 50 #define MORSE_PAUZA 50
#define NUM_NOTE 8
```

```
int frecventa_nota[NUM_NOTE] = {  
    262, 294, 330, 349, 392, 440, 494, 523  
};  
void exemplu(void) {  
    DDRD |= (1 << PD6); while(1)  
        DDRB |= (1 << PB0);  
}  
int main(void) {  
    exemplu();  
    return 0;  
}
```

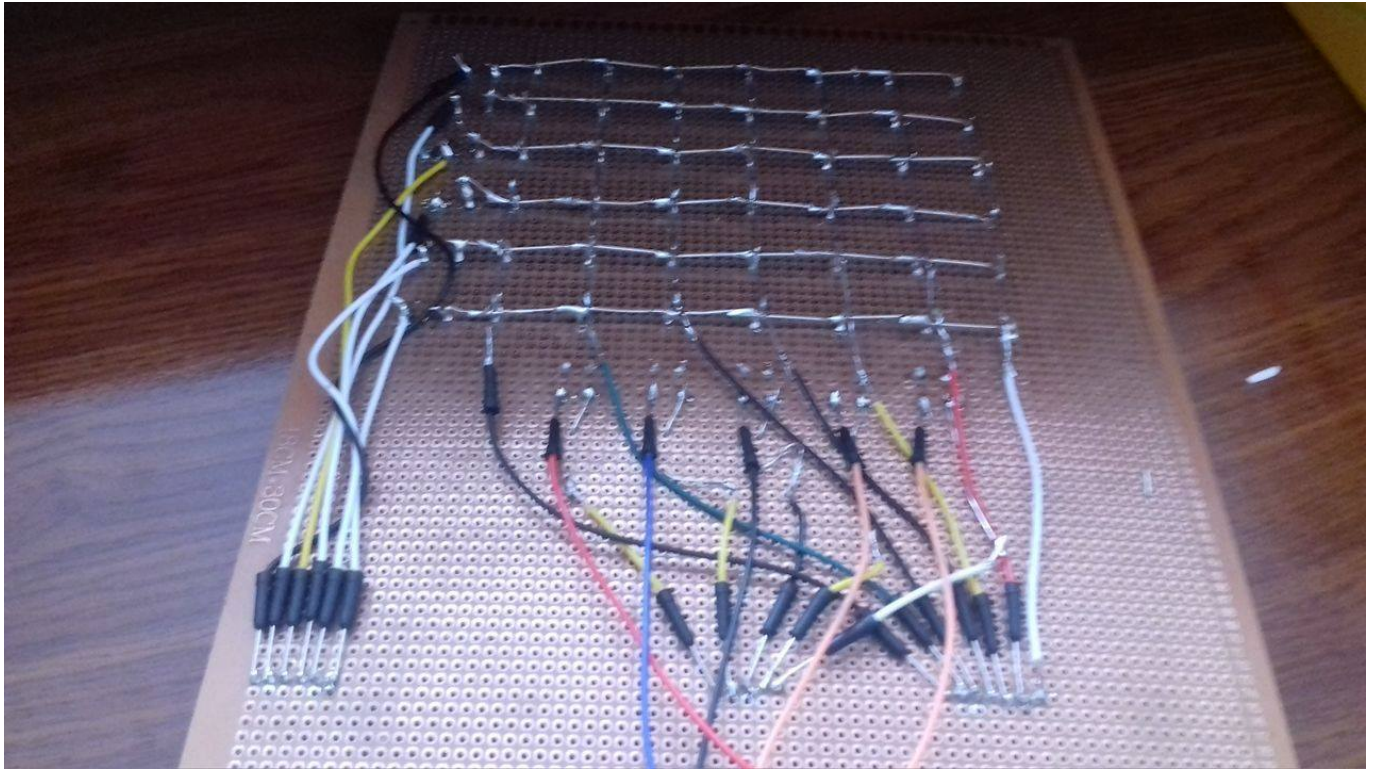


Rezultate Obținute

Rezultat :







Download

<https://drive.google.com/open?id=0B9eVKspioLx1MIMyNm94bzhqWW8>

Jurnal

Milestone 1: documentarea jocului, realizarea schemei bloc si a listei de piese

Milestone 2: realizare placutei de baza

Milestone 3: realizarea schemei electrice

Milestone 4: Am cumparat piesele necesare si le-am lipit.

Bibliografie/Resurse

Resurse Hardware:

Piese cumparate: - <https://www.optimusdigital.ro/>

- <http://www.conxelectronic.ro/ro/4-componente-electronice>

Last update:

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