**UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI**

Facultatea de Electronică, Telecomunicații și Tehnologia Informației

**Proiect**

Tehnologii de Interconectare în Electronică

2022-2023

**AFIȘAJ STATIC DE LA 0 LA 9**

Departamentul de Electronică Tehnologică și Tehnici de Interconectare

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**2. Date inițiale de proiectare**

Scopul acestui proiect este realizarea design-ului PCB al unui afișaj static de la 0 la 9 având la bază un set de date inițiale de proiectare.

Afișajul este alcătuit dintr-un numărător asincron IC 7490(IC2), un decodor IC 7446 (IC1) și un afișaj cu 7 segmente.

Proiectul PCB va fi realizat folosind straturile electrice TOP și BOTTOM, plasând toate componentele pe stratul TOP. Placa va fi una pătrată cu dimensiunile de 65X65 mm, cu două găuri nemetalizate de prindere (de diametru 3,2 mm) amplasate în două colțuri opuse ale acesteia, la 1,5 M de colțul respectiv. Spațierea în toate cazurile va fi de 0,25 mm, traseele de semnal vor avea lățimea de 0,5 mm, iar traseele de alimentare vor avea lățimea de 0,9 mm, conexiunea cu masa fiind realizată printr-un plan de masă pe stratul BOTTOM.

Datele precizate mai sus se regăsesc și în anexa 2, corespunzatoare echipei 12.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Echipa (“Team”)** | **Lăţime trasee de semnal** | **Lăţime trasee de masă/alimentare** | **Spaţiere în toate cazurile** | **Forma şi dimensiunile plăcii [mm]** |
| 12 | 0,5 | 0,9 | 0,25 | Pătrat, 65x65, cu 2 g.p. în 2 colţuri pe diagonală, plasate la 1,5 M distanţă de colţuri\* |

**ANEXA 1 (schema originala)**

O imagine care conține diagramă, text, Plan, Desen tehnic

Descriere generată automat

**3. Conţinut tehnic/ştiinţific al proiectului**

**1.1 Descriere a funcţionării schemei proiectate**

Circuitul prezentat în schema de mai sus este cel al unui afisaj static de la 0 la 9 folosit în multe aplicații. Afișajul este alcătuit dintr-un numărător asincron IC 7490(IC2), un decodor IC 7446 (IC1) și un afișaj cu 7 segmente.

**Afișajele cu 7 segmente** oferă o modalitate convenabilă de afișare a informațiilor numerice de la zero la nouă, întrucât constau practic dintr-o sarcină de diode emițătoare de lumină. Fiecare diodă emițătoare de lumină (numită segment) este iluminată folosind un curent electric și, prin iluminarea diferitelor combinații de segmente, astfel încât unele segmente să fie pornite și să emită lumină, în timp ce altele vor fi dezactivate, putem afișa caractere individuale sau numere.

După cum sugereaza și numele, aceste afișaje sunt alcatuite din 7 segmente, adică diode, dar de fapt majoritatea conțin 8 diode, a 8-a reprezentând de fapt punctul zecimal amplasat într-un colț al afișajului.

Afișajele pot fi de două tipuri: catod comun, atunci când terminalele catod ale tuturor diodelor sunt legate împreună și conectate la masă, și anod comun, atunci când anozii tuturor diodelor sunt legați împreună și conectați la o sursă de tensiune pozitivă.

Afișajul folosit în acest circuit este de tip ANOD COMUN. Deoarece afișajul cu anod comun necesită un circuit de acționare care absoarbe curent, s-au adăugat cele 7 rezistoare cu valoarea rezistenței de 220 ohmi, limitând astfel curentul.

Pentru a conecta acest afișor la circuit, avem nevoie de un decodor care poate converti un anumit cod binar într-un set de semnale de iesire pentru a comanda afișorul, în acest caz un decodor BCD (Binary Coded Decimal).

Decodorul BCD primește o intrare de la numărătorul asincron, care poate fi o valoare în formatul BCD (Binary Coded Decimal). Un număr BCD este o reprezentare a cifrelor de la 0 la 9 utilizând 4 biți. Fiecare combinație a celor 4 biți corespunde unei cifre specifice. Decodorul BCD primește acești 4 biți și activează segmentele corespunzătoare pentru a afișa cifra corespunzătoare pe afișajul pe 7 segmente.

Funcționarea acestui circuit este una destul de simplă, pentru fiecare impuls de ceas, ieșirea BCD a numărătorului va avansa cu un bit. Decodorul IC1 (7446) va decoda această ieșire BCD la forma corespunzătoarea a 7 segmente și va comanda afișajul pentru a indica cifra corespunzătoare.

**1.2 Schemă electrică**

![O imagine care conține text, diagramă, Plan, Desen tehnic

Descriere generată automat](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAlgCWAAD/4ScERXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA2OjAyIDE3OjUyOjM0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Blv4Ve81i8uFuNPdbi5ke4S3jgZZsLcDaplj+ZTnjrxfif8AYh1uz0jUfCPhHVtLHhDxB4a8P+GdVutVklW+s49MldvPt0SNklaWORgVZowr4bLD5aAPX/hT+1B4a+JFxc6feo3h/W11fWNMt7KZZpI7oafcPFI0c5iWNnKIJTEpLKpPUKTWPH+1t4R1bXvD2raZ4r0eP4d3eg6jrN1e6jp+oW91MtuLRhLbO8SxNEq3O2QH5/MIRQWSRV5bwX+y34v0vxN4cfV7/RBo3h/xN4k8TW0tlPM9xcPqX2lYoXRolVFRbp2Zg7ZKqAuMmsmz/ZB8V23gT4Y6JP8A8Ijq7+GPh/qPhTULLVDcy2V5c3BsyuAiI5iItpMvlXUsjBWwRQB7hN+0l8PYPCcPiKTWbpLGbUjo8ds2k3n29r0KXNuLLyftHmBAX2+Xnb83TmrHhf8AaF+H/jbxJpeg6B4gGsapqWnQ6tbR2VpPKjWkvnbJmkEexFzbyqS7Da4VGwzoG8T8P/sz/Erw7p/hHWE1rTdR17wp4outY0bw9rGuXl9ZWthPYNZtZf2hLAbh9pd5Udojtzsxj5q3v2Xv2X9c+Aviia/1LVNO1S3m8MWelu9r5iv9sW/v7u4IVlwIc3qqnzEkJyBxkA2m/aikX/hJrFvC23xFpPj218Ew6WdQ/wCPpbgwPFel/K+Rfs0zzFNrf6ll3fxUuh/tU+GPD/hma/8AHfibSVuX1jWbO3/4R/TtQmVbaxunikeWMxGRfJUIJpiBCGyQ20g1Xvv2c9XuP2toPiTHf2A8GNa299daY7Obp9Zgt7qzimC7dnl/ZbtgSW3bo0wO482b9kH4g6EdT1LQtR8M3Or6pB4s0i4g1G4uFt4rLV9Q+1QzoywsTNEAoaIqFbJAkGMkA+hrH9oD4f6lqfiaytvEcUjeGrc3esXP2eYWtlCIIpw8lwU8oBop0dfn+YB9ufLfbzt7+094cuNe8E6boEMurt4g8QjQLpbqObT7jTWawmvUkeCaISEMkS7chQwkDBjjB878P/saX+nfBv4x/Dy4122W08X2lpY6ZqUQd5Yo7fSbSyV50IHJktmYqrNlW6gkgVvCP7KHifT/ABv4V8VXkOiabf2Pii31fUVXxJrGtT3FrDpl3ap/pN+WZpPMushAkaqgwWcgGgD6yrxXw7+0Nqfi/UpbzQ/BNzq3g2PxRJ4WfVrS6aS7Ekchhlu/soiI+ypMChkMu4KC+3Ar0r/hCNO/4TL/AISf7TrH9peR9n8j+2rz7DtxjP2Lzfs+7/b8vd718zap+xrq9xYWugxReGLrS9G8df8ACYaFrl4HOpWcEt/HeXNkq+SfLyysPMST51VFZB94AHtmi/tJfDvxFrltpGn69LcXtzrE2gQ/8S27WJ7+H7QZbcSmIJvUWk5PzcAIekkZbN1D9rX4V6XoegaxN4lmew16wutT017fSb2Z57W2dVuJfLSEuojLgtuAwoZvuqxHnNr+zR428P6D4Vn0q58P3XiDw/8AEPWPFyW93dTxWtxa3rXwWNpVhZllVLtCRsIyhXdjDV51afs//FL4e3Pwb8JaJZaPrWr6T4G8SaPf6vdG5j0mOS5ntShMywsVcglljZRvEbqCPvAA+nvEv7SXw38I6hpFpqfieJG1W2tr23mt7We4t1t7iQR280s0SNHBHI5Co8rKrHgE11Hg74i+HfH2m6nqGhakt5ZaZqF1pd3M0TwiK5tpDHOh8xVyFZSNw+U4yCRzXyZ8SP2MfiZrng3RPBGjeMLO88J6R4a0XSLGG91i+sI4LmykVp5ZLW3Ro7oTqiAGZiItvCNgGvo/VvAfiP4ofDLxf4S8d6jbaT/bM17ZQ3fg+R45U013IhDNOjgTmLCyfKUyW28UAec+B/2vLz4jWPjyfw98PNS1OTQ9U0+w0eC3udzavDeqjW95J+6/0W3MbrKztv2xnceflrs/hn8epfHPhvxxcX3hi5tPEHg3Vp9F1LR9Hn/tET3Ecccii2l2R+YHWVPvrGVOdwUDNeW6Z+zv8Yvhjqfxb1bwP450/WdV8TtpsGjyeJjb26W8MNrFDJPKtpp6qsyBGSJUUxbdpkVmBz6X8D/h94j+EXwnvdFtvCug2mupNLdxr/wk9zfDVrqTDS3N7evYRussjltxEL4AGOMKADjLP9rrV/EHwj+E/izRPA1pJrHxB12TQ4NI1PXWt4bJlW7bfJcR20pYYtDwsfV+vGT6b8BfjA3xr8F3uszaP/Yd9p+r32i3lrHdC7g8+1maJ2hnCp5sZK5D7V7jHFfONt+yR8Qrj4D/AAq8Ea94f8AeI5/BHiiTV59M1DV7iXTtWtHjvMo5fT2KOHul+UxOpEe7cCdo94/Zi+EetfBnwDqWi6zPp6fa9avNTs9H0eSSSw0a2mcMllbNIqMY0IZvuIMyNhQMUAevUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB5D+yD/yaz8J/+xZsP/RC169XkP7IP/JrPwn/AOxZsP8A0QtevUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB5z408C69ffFbwr410OTTpG0jR9U0mWy1B5IxILuaxlEiuit937ERgjnzOvHOr9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHHfavH/8A0DfDf/gwuP8A4xR9q8f/APQN8N/+DC4/+MV2NFAHF/BXwFP8LPhH4O8H3V3Hf3GhaVbadJdQqVSVo4whYA8gHHeu0oooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/9k=)

**1.3 Raport de postprocesare “Design Rules Check” (DRC)**

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Checking Schematic: SCHEMATIC1

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Checking Electrical Rules

Checking For Single Node Nets

Checking For Unconnected Bus Nets

**1.4 Raport de postprocesare “Cross Reference” (CR)**

1 7\_segment\_display D1 SCHEMATIC1/PAGE1 0 C:\USERS\CORINA COSTEA\DESKTOP\TIE!!!!!!!\PROIECT.DSN

2 220 R1 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

3 220 R2 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

4 220 R3 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

5 220 R4 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

6 220 R5 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

7 220 R6 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

8 220 R7 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\DISCRETE.OLB

9 7446 IC1 SCHEMATIC1/PAGE1 0 C:\USERS\CORINA COSTEA\DESKTOP\PROIECT\_TIE\PROIECT\_TIE.DSN

10 7490 IC2 SCHEMATIC1/PAGE1 0 C:\USERS\CORINA COSTEA\DESKTOP\PROIECT\_TIE\_IN LUCRU\PROIECT\_TIE.DSN

11 CON2 J1 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\CONNECTOR.OLB

12 CON2 J2 SCHEMATIC1/PAGE1 0 C:\CADENCE\SPB\_17.2\TOOLS\CAPTURE\LIBRARY\CONNECTOR.OLB

**1.5 Raport de postprocesare “Bill of materials” (BOM)**

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Descriere generată automat

**TOTAL: 65,675**

**1.6 Raport de postprocesare “Wirelist” (WR);**

Wire List

Revised: June 03, 2023

C:\USERS\CORINA COSTEA\DESKTOP\TIE\_PROIECT\PRORevision:

<<< Component List >>>

7\_segment\_display D1 DIP10\_3

7446 IC1 DIP16\_3

7490 IC2 DIP14\_3

CON2 J1 JUMPER2

CON2 J2 JUMPER2

220 R1 RES400

220 R2 RES400

220 R3 RES400

220 R4 RES400

220 R5 RES400

220 R6 RES400

220 R7 RES400

<<< Wire List >>>

NODE REFERENCE PIN # PIN NAME PIN TYPE PART VALUE

[00001] +5V DC

D1 8 8 Power 7\_segment\_display

D1 3 3 Power 7\_segment\_display

IC2 5 5 Power 7490

IC1 4 4 Power 7446

IC1 5 5 Power 7446

IC1 3 3 Power 7446

IC1 16 16 Power 7446

J1 1 1 Passive CON2

[00002] CLOCK

J2 1 1 Passive CON2

IC2 14 14 Input 7490

[00003] GND

J2 2 2 Passive CON2

IC2 10 10 Power 7490

IC2 2 2 Power 7490

IC2 3 3 Power 7490

IC2 6 6 Power 7490

IC2 7 7 Power 7490

IC1 8 8 Power 7446

J1 2 2 Passive CON2

[00004] N06413

D1 7 7 Input 7\_segment\_display

R1 1 1 Passive 220

[00005] N06421

D1 10 10 Input 7\_segment\_display

R7 1 1 Passive 220

[00006] N06429

R2 1 1 Passive 220

D1 6 6 Input 7\_segment\_display

[00007] N06437

R6 1 1 Passive 220

D1 9 9 Input 7\_segment\_display

[00008] N06445

D1 4 4 Input 7\_segment\_display

R3 1 1 Passive 220

[00009] N06457

R5 1 1 Passive 220

D1 1 1 Input 7\_segment\_display

[00010] N06613

R1 2 2 Passive 220

IC1 13 13 Open Collector 7446

[00011] N06617

R2 2 2 Passive 220

IC1 12 12 Open Collector 7446

[00012] N06621

IC1 11 11 Open Collector 7446

R3 2 2 Passive 220

[00013] N06629

R4 2 2 Passive 220

IC1 10 10 Open Collector 7446

[00014] N06633

R5 2 2 Passive 220

IC1 9 9 Open Collector 7446

[00015] N06641

R6 2 2 Passive 220

IC1 14 14 Open Collector 7446

[00016] N06645

IC1 15 15 Open Collector 7446

R7 2 2 Passive 220

[00017] N06811

IC2 11 11 Output 7490

IC1 6 6 Input 7446

[00018] N06815

IC2 8 8 Output 7490

IC1 2 2 Input 7446

[00019] N06819

IC2 9 9 Output 7490

IC1 1 1 Input 7446

[00020] N06823

IC2 1 1 Input 7490

IC2 12 12 Output 7490

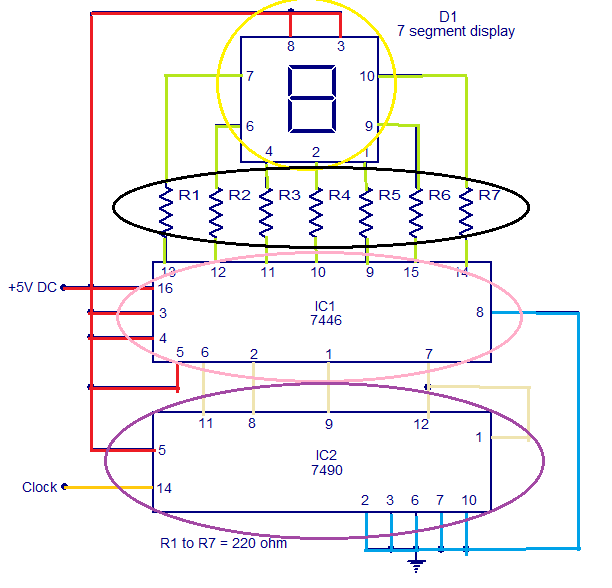
IC1 7 7 Input 7446

[00021] N08353

R4 1 1 Passive 220

D1 2 2 Input 7\_segment\_display

**1.7 Prezentarea corelației dintre anexa 1 şi proiectul CAD generat**

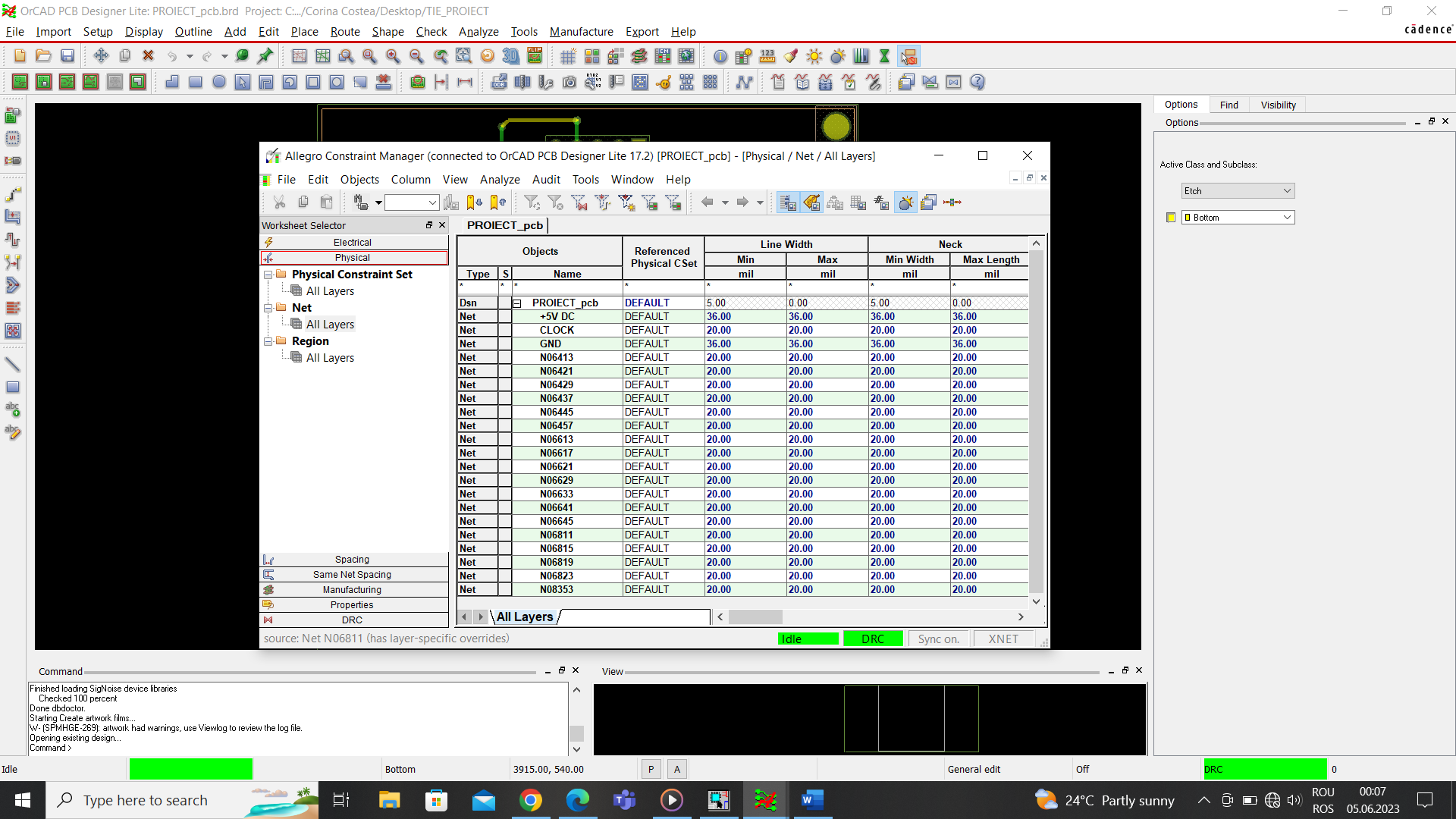


![O imagine care conține text, diagramă, Plan, Desen tehnic

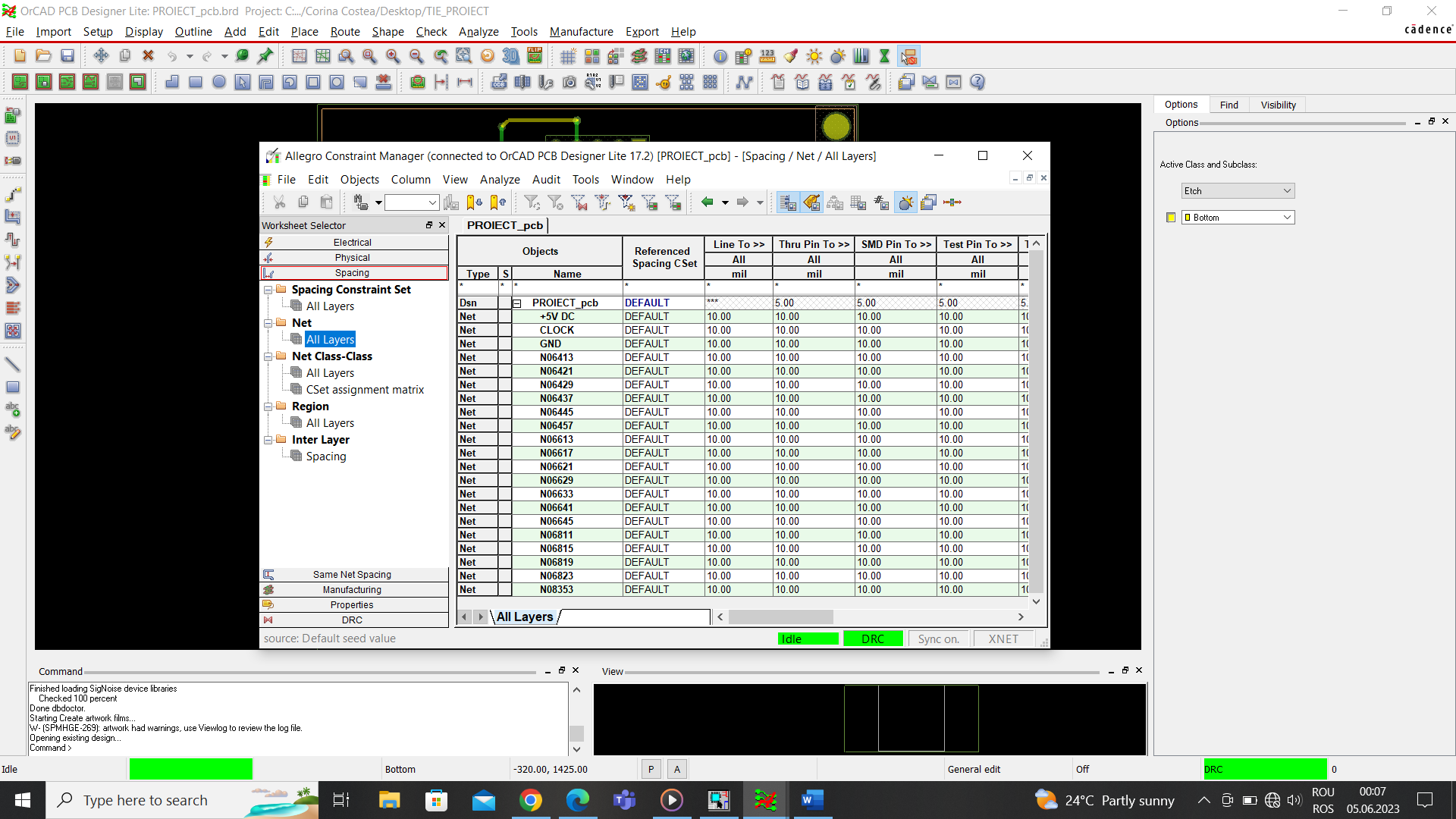
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automat](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAlgCWAAD/4SE+RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA2OjAyIDE3OjUyOjM0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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***2. Proiectare circuit imprimat (layout) – PCB***

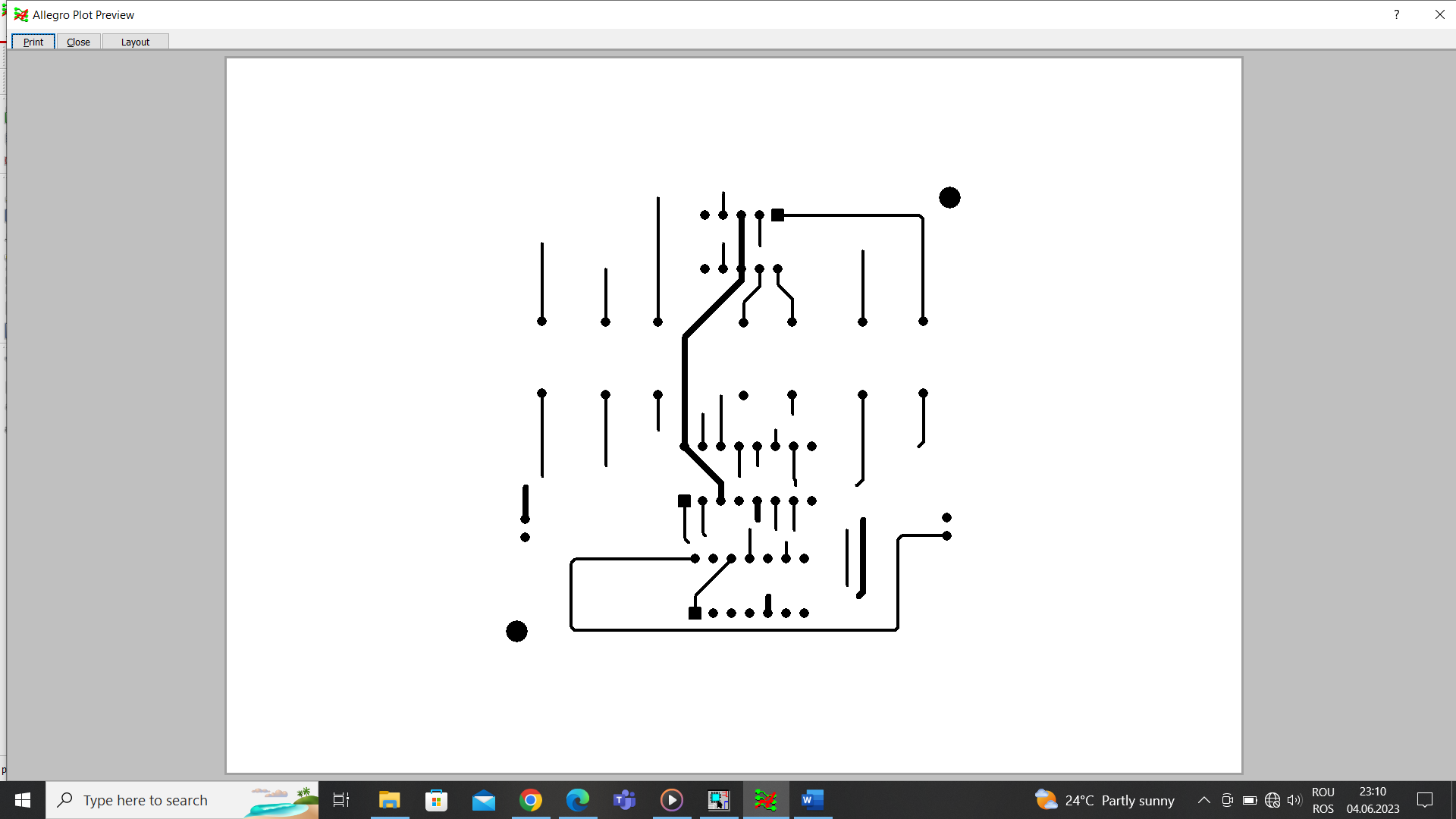
**2.3 / 2.4 Lațime trasee**



**2.5 Spațiere**



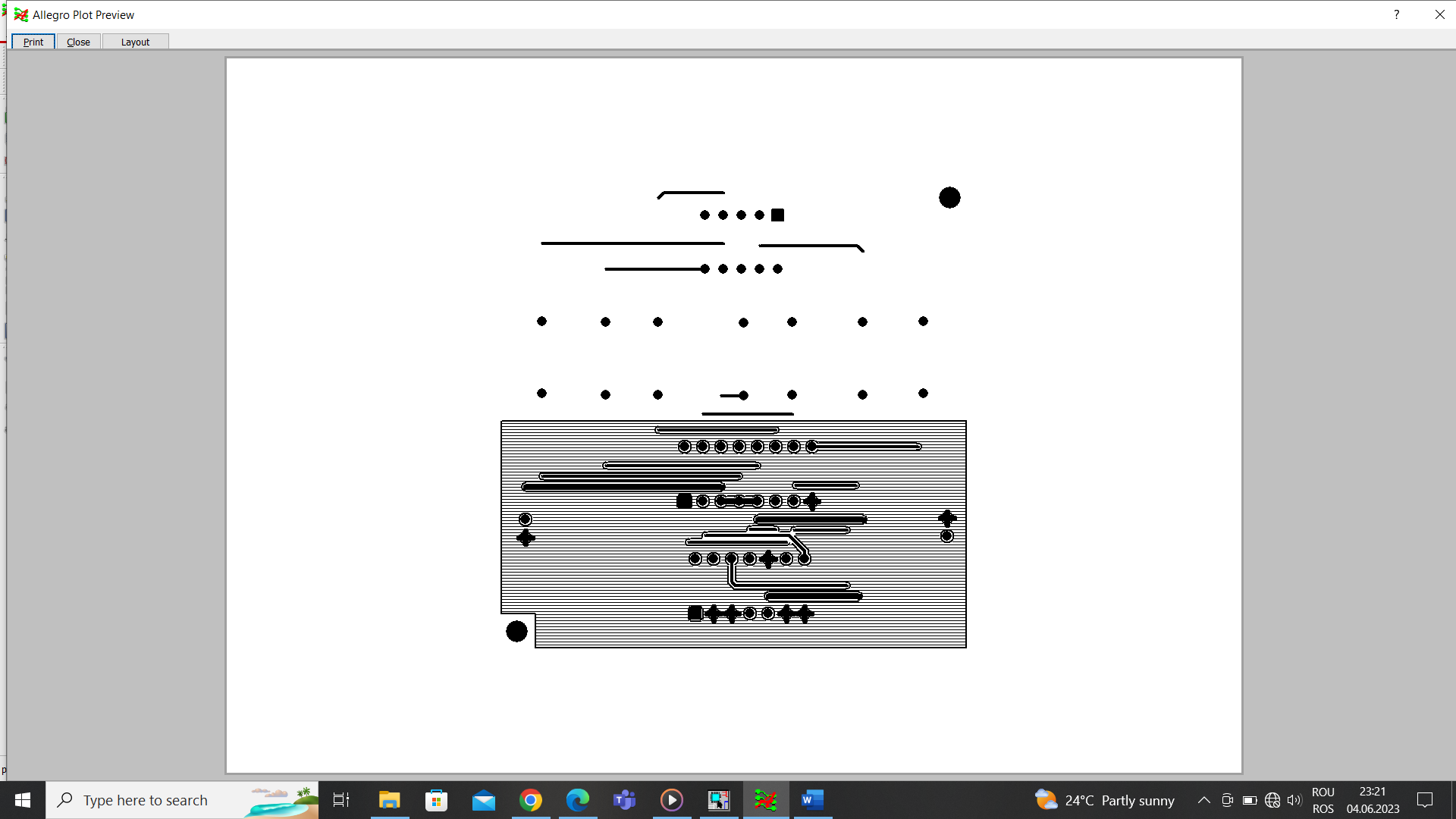
**2.6.1 Layer Copper Top**



O imagine care conține text, captură de ecran, Font, număr

Descriere generată automat

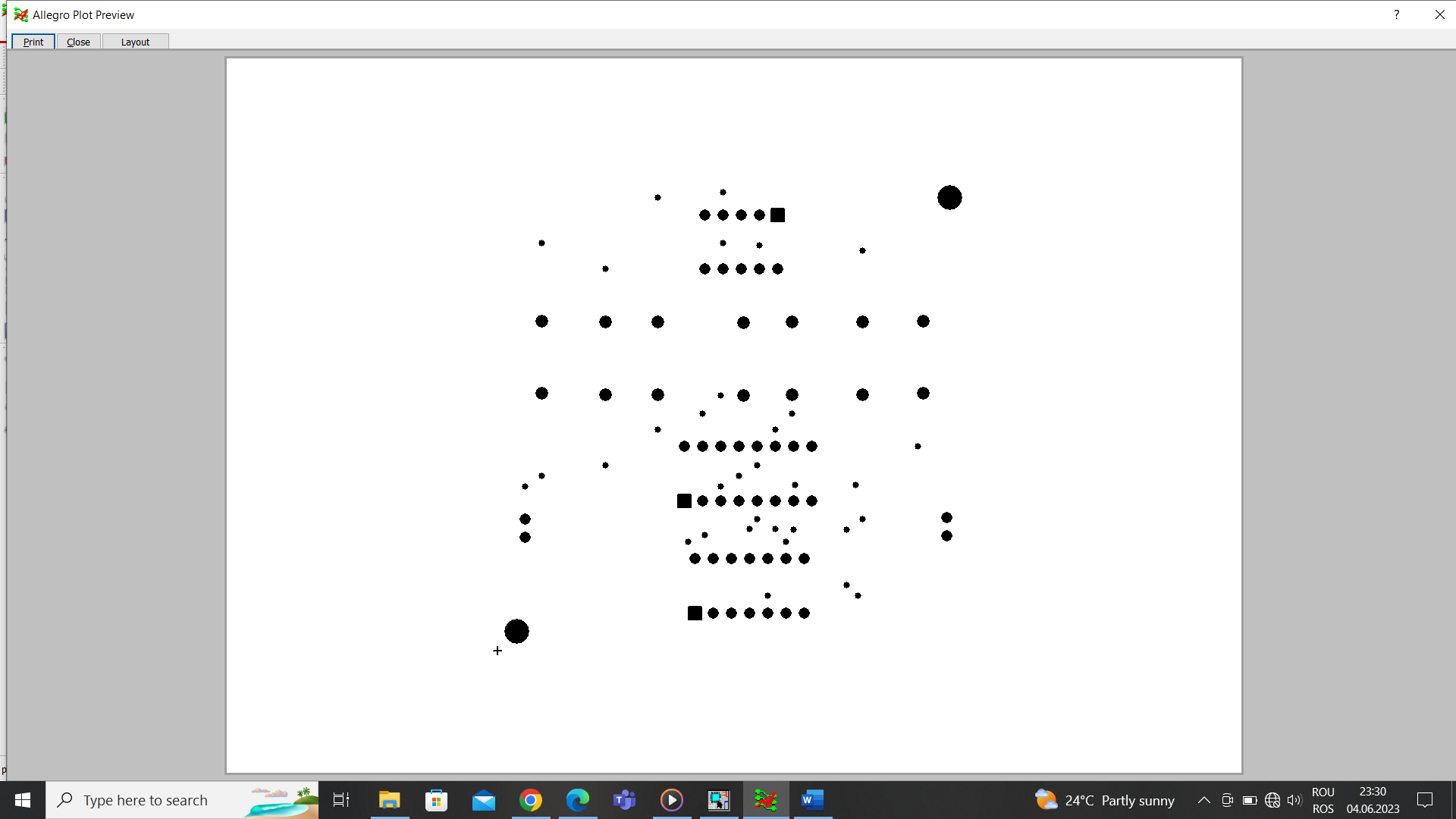
**2.6.2 Layer Copper Bottom**



O imagine care conține text, captură de ecran, Font, chitanță

Descriere generată automat

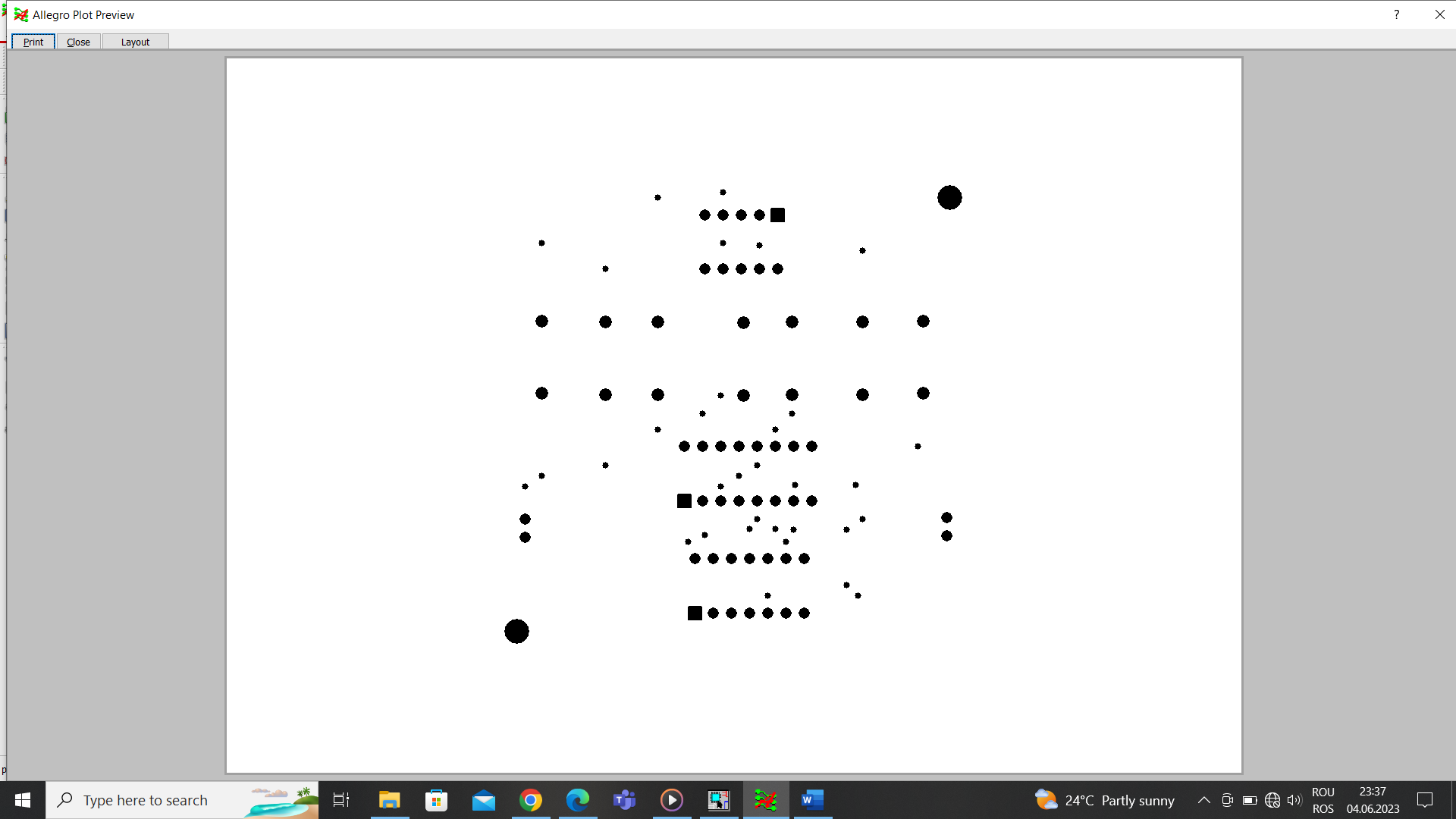
**2.6.3 Layer Solder Mask Top**



O imagine care conține text, chitanță, captură de ecran, Font

Descriere generată automat

**2.6.3 Layer Solder Mask Bottom**



O imagine care conține text, captură de ecran, Font, număr

Descriere generată automat

**2.6.4 Layer Silk Screen Top**

**O imagine care conține captură de ecran, diagramă

Descriere generată automat**

O imagine care conține text, chitanță, captură de ecran, Font

Descriere generată automat

**2.7 Board Outline**

O imagine care conține captură de ecran, text, software, afișaj

Descriere generată automat

***3. Proiectare mecanică - MECH***

**3.3 Fabrication**

O imagine care conține text, captură de ecran, afișaj, software

Descriere generată automatO imagine care conține text, captură de ecran, software, afișaj

Descriere generată automat

O imagine care conține text, captură de ecran, Font, număr

Descriere generată automat

**3.4 NC DRILL**

O imagine care conține text, captură de ecran, software, Software multimedia

Descriere generată automat

(--------------------------------------------------------------------- )

( NC DRILL Log )

( Drawing : PROIECT\_pcb.brd )

( Software Version : 17.2S025 )

( Date/Time : Mon Jun 05 20:28:34 2023 )

(--------------------------------------------------------------------- )

Processing NC Parameters file 'nc\_param.txt' ...

NC PARAMETERS

-------------

FORMAT 2.5

MACHINE-OFFSET x:0.00000 y:0.00000 (inch)

FEEDRATE 1

COORDINATES ABSOLUTE

OUTPUT-UNITS ENGLISH

TOOL-ORDER INCREASING

REPEAT-CODES YES

SUPPRESS-LEAD-ZEROES YES

SUPPRESS-TRAIL-ZEROES NO

SUPPRESS-EQUAL YES

TOOL-SELECT YES

HEADER none

LEADER 12

CODE ASCII

SEPARATE NO

SEPARATE-ROUTING NO

OPTIMIZE\_DRILLING NO

ENHANCED\_EXCELLON YES

SCALE 1.000000

WARNING(SPMHMF-358): Design precision is the same as that of the drill output file data.

WARNING(SPMHMF-359): Data rounding errors may still be possible.

WARNING(SPMHMF-368): Cannot find NC Drill tool file 'nc\_tools.txt'

WARNING(SPMHMF-369): ... will auto-generate tool file 'nc\_tools\_auto.txt'.

Auto-generating tool file 'nc\_tools\_auto.txt' ...

Size Plating Tool + Tolerance - Tolerance

13.00 P T01 0.000000 0.000000

36.00 P T02 0.000000 0.000000

42.00 P T03 0.000000 0.000000

128.00 N T04 0.000000 0.000000

'PROIECT\_pcb-1-2.drl' created for holes connecting TOP and BOTTOM

-----------------------------------------------------------------

Tool Num Size +/- Tolerance Plating Quantity

T01 1. 13.0000 0.0000/ 0.0000 PLATED 45

T02 2. 36.0000 0.0000/ 0.0000 PLATED 44

T03 3. 42.0000 0.0000/ 0.0000 PLATED 14

T04 4. 128.0000 0.0000/ 0.0000 NON\_PLATED 2

---- Total holes: 105

---- Total head travel: 4.81 feet (1.47 meters)

***4. CONCLUZII***

În cadrul acestui proiect s-a studiat si analizat schema unui afișaj de la 0 la 9. Am observat că una dintre cele mai importante componente este afișorul D1 (7 segment\_display) deoarece prin intermediul lui putem afișa cifrele pe care le dorim.

Schema electrică a proiectului a fost realizată în aplicația OrCAD Capture CIS Lite versiunea 17.2. Aceasta este alcătuită din afișorul pe 7 segmente D1, componentă pe care am creat-o, din numărătorul IC2 (7490), decodorul IC1 (7446) și cele 7 rezistoare folosite pentru limitarea curentului. Afișorul D1 este o componentă pe care am creat-o, având doi pini de power (pinii 3 și 8), iar restul pinilor de input.

Următorul pas este a fost reprezentat de realizarea proiectării structurii de interconectare PCB a modului electronic, adică proiectarea circuitului imprimat în aplicația OrCAD PCB Designer, versiunea 17.2 .

În concluzie, considerăm că acest proiect ne-a oferit ocazia de a ne familiariza cu tool-urile din OrCAD, de a învăța să parcurgem toți pașii în realizarea completă a unui circuit și, mai mult decât atât, să ne familiarizăm cu partea de proiectare ce poate fi regăsită în viitoarele noastre job-uri de viitori ingineri.

***5. BIBLIOGRAFIE SI WEBOGRAFIE***

* [CETTI - Sprijin pentru Industria Electronica](https://www.cetti.ro/v2/)
* [Farnell România - Distribuitor de componente electronice](https://ro.farnell.com/)
* [Componente electronice. Distribuitor şi magazin online - Transfer Multisort Elektronik (tme.eu)](https://www.tme.eu/ro/)
* <https://www.circuitstoday.com/static-0-to-9-display>
* <https://sites.google.com/site/bazeleelectronicii/home/contoare-1/8-contor-pentru-afisaj-cu-7-segmente>

***6. ANEXE***

**ANEXA 1 (schema originala)**

O imagine care conține diagramă, text, Plan, Desen tehnic

Descriere generată automat

**ANEXA 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Echipa (“Team”)** | **Lăţime trasee de semnal** | **Lăţime trasee de masă/alimentare** | **Spaţiere în toate cazurile** | **Forma şi dimensiunile plăcii [mm]** |
| 12 | 0,5 | 0,9 | 0,25 | Pătrat, 65x65, cu 2 g.p. în 2 colţuri pe diagonală, plasate la 1,5 M distanţă de colţuri\* |