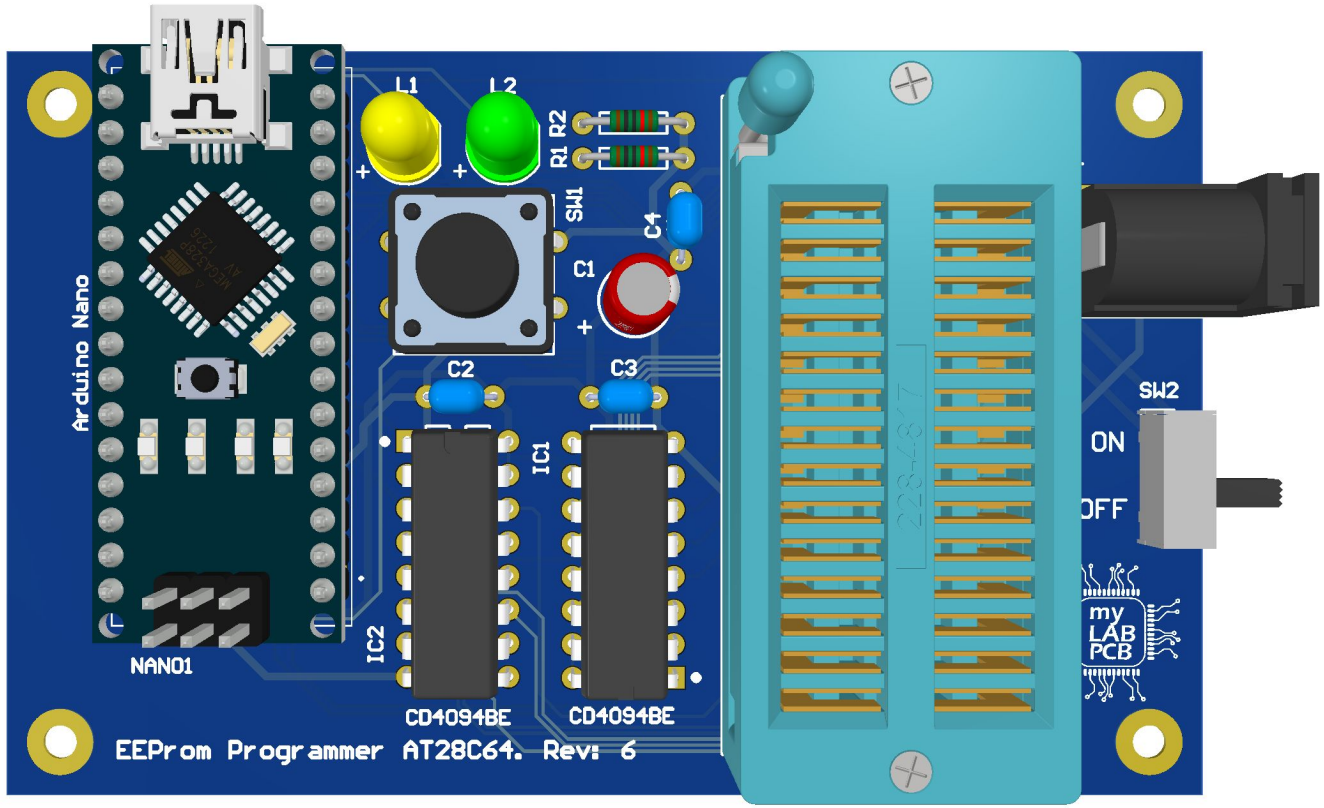
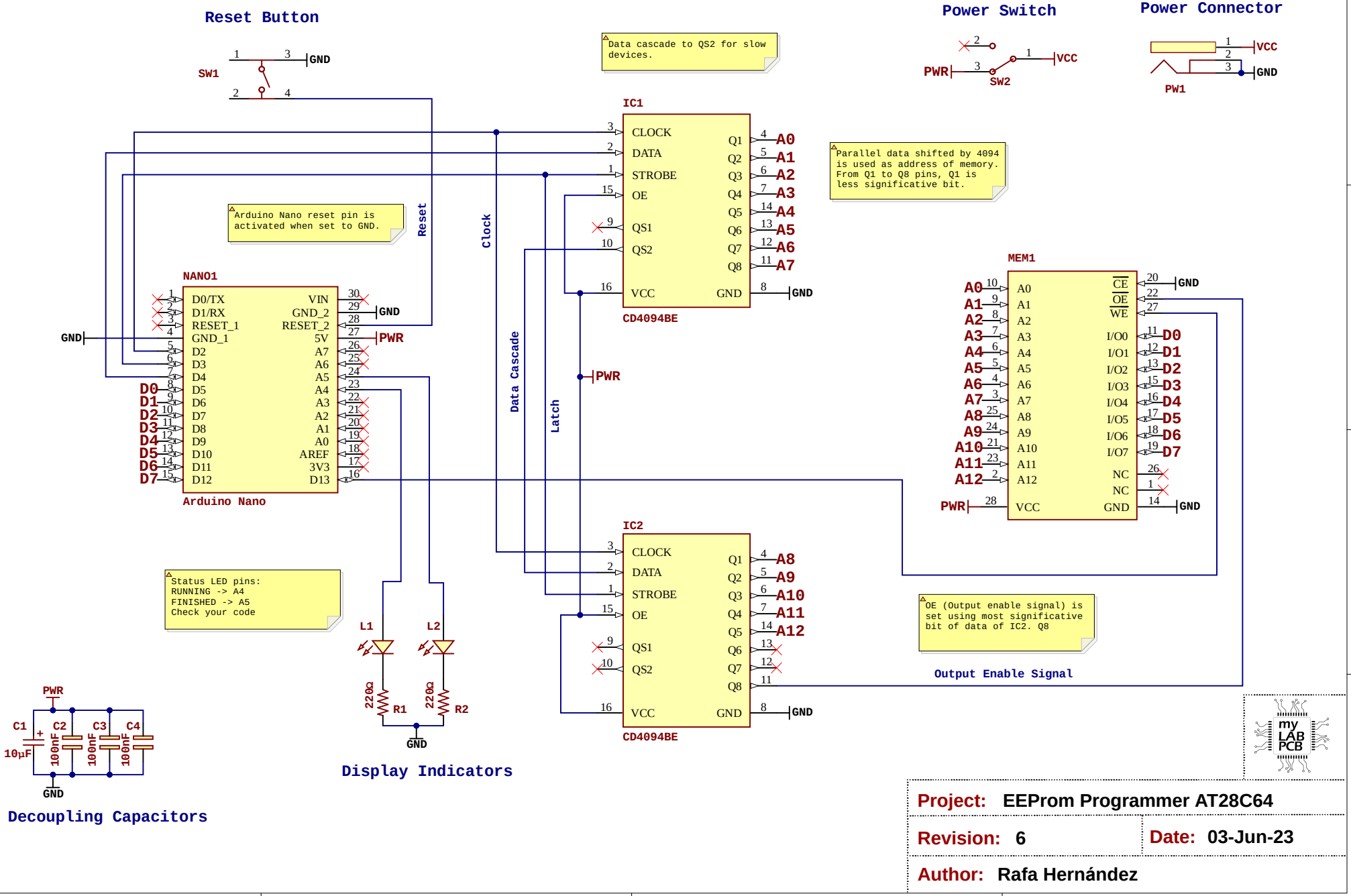
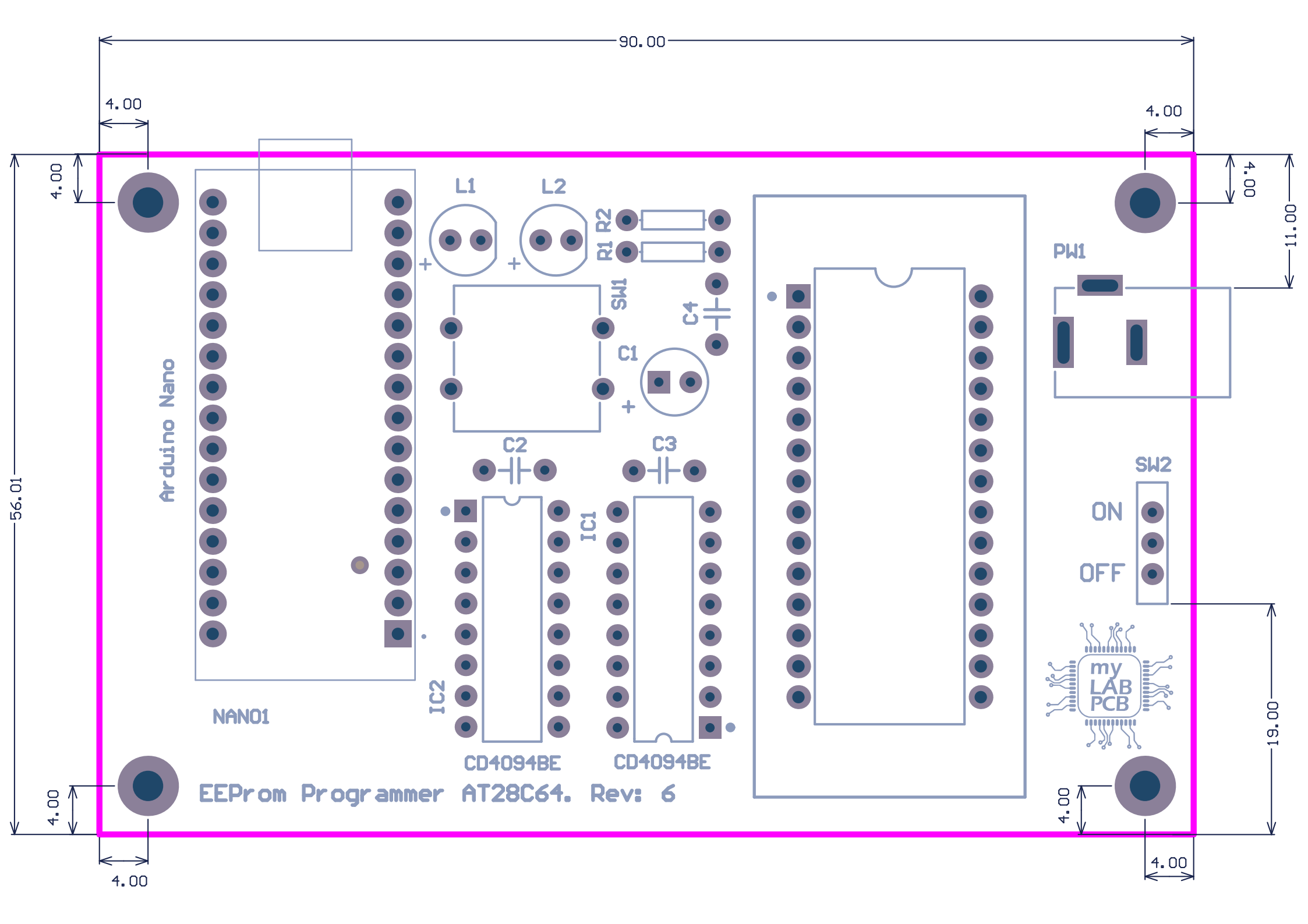
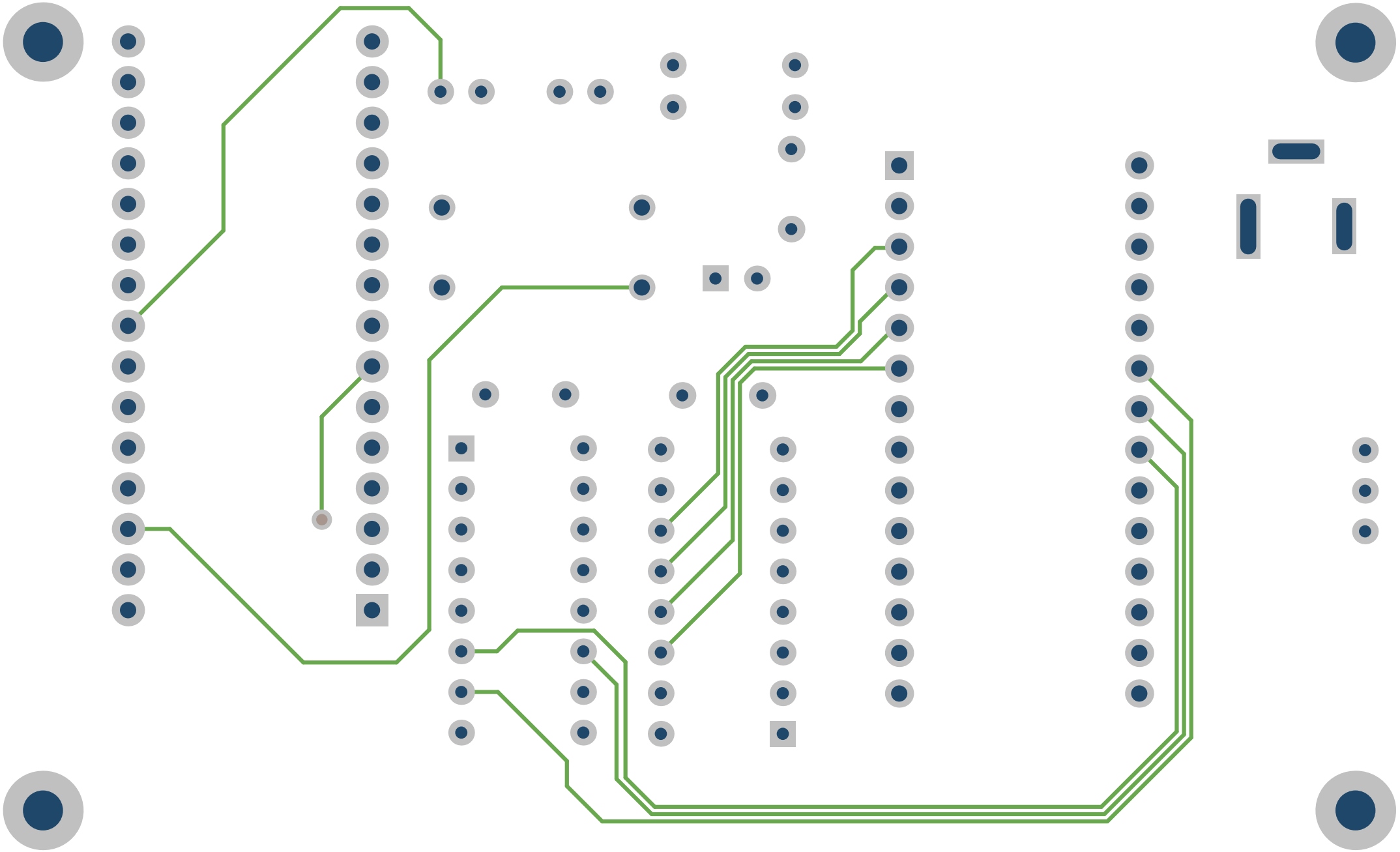
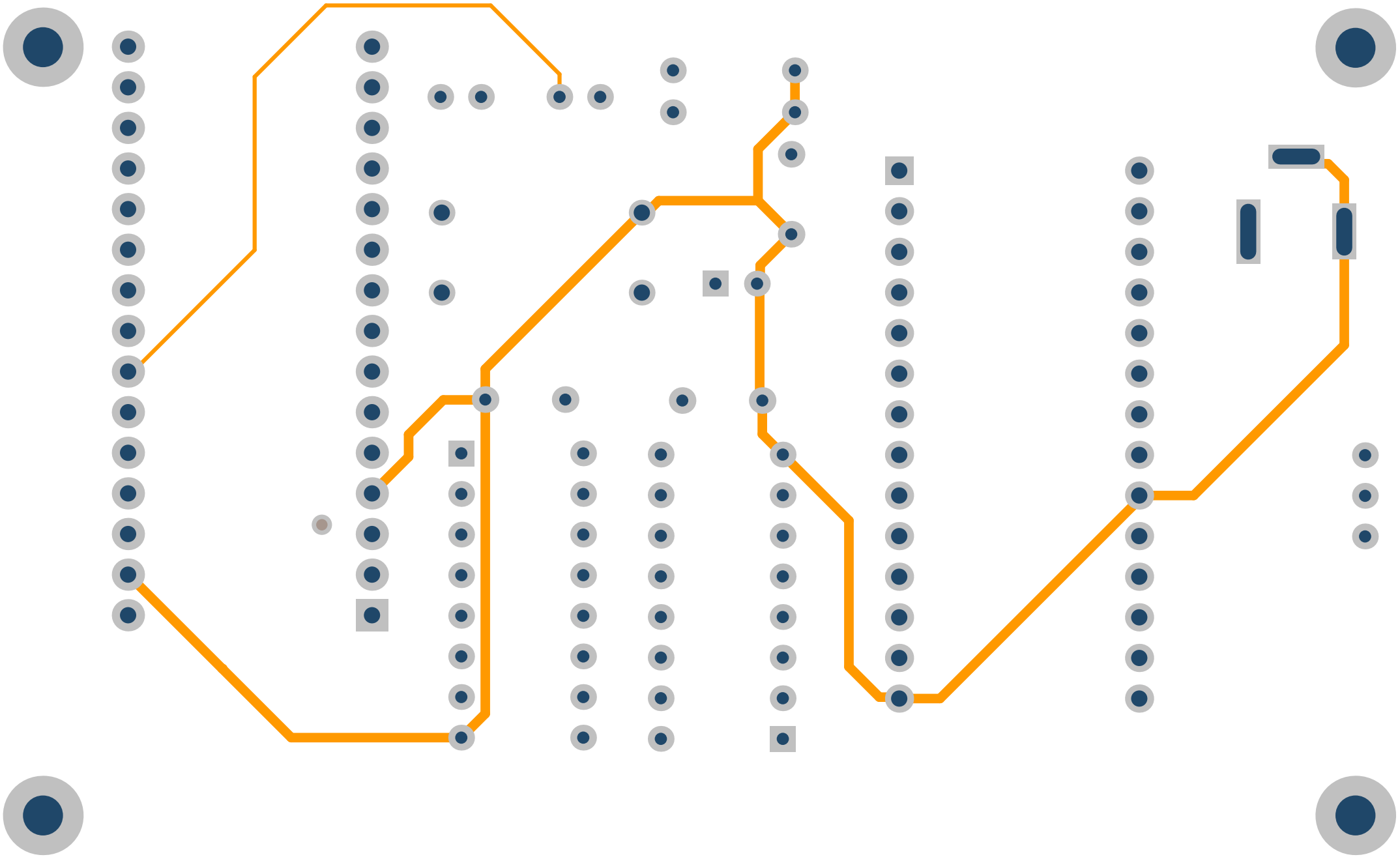
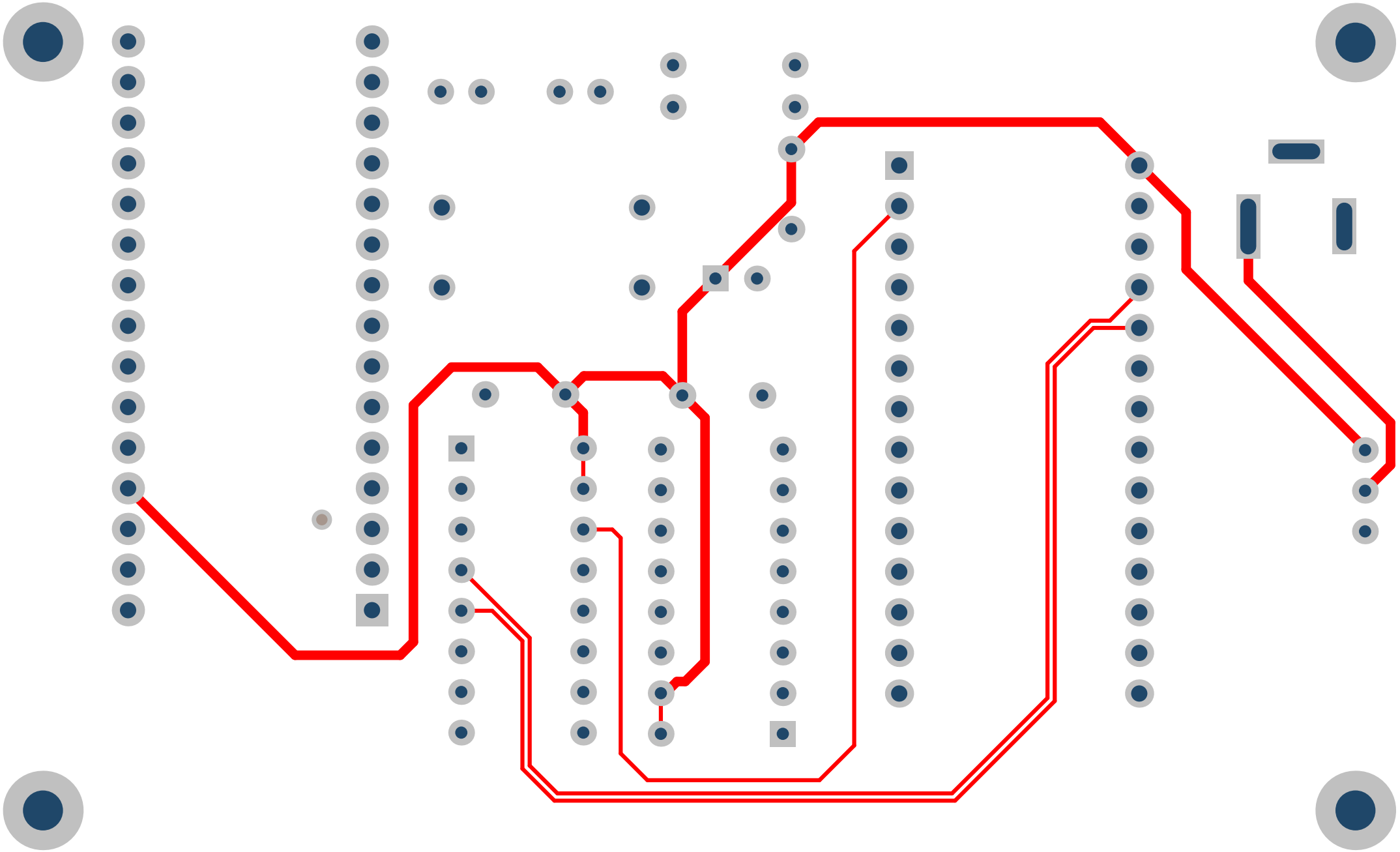

L1
L2
R1 R2
SW1
C4
C1
C2
C3
IC1
IC2
SW2
ON
OFF
Arduino Nano
NANO1
CD4094BE
CD4094BE
my LAB PCB
EEProm Programmer AT28C64. Rev: 6

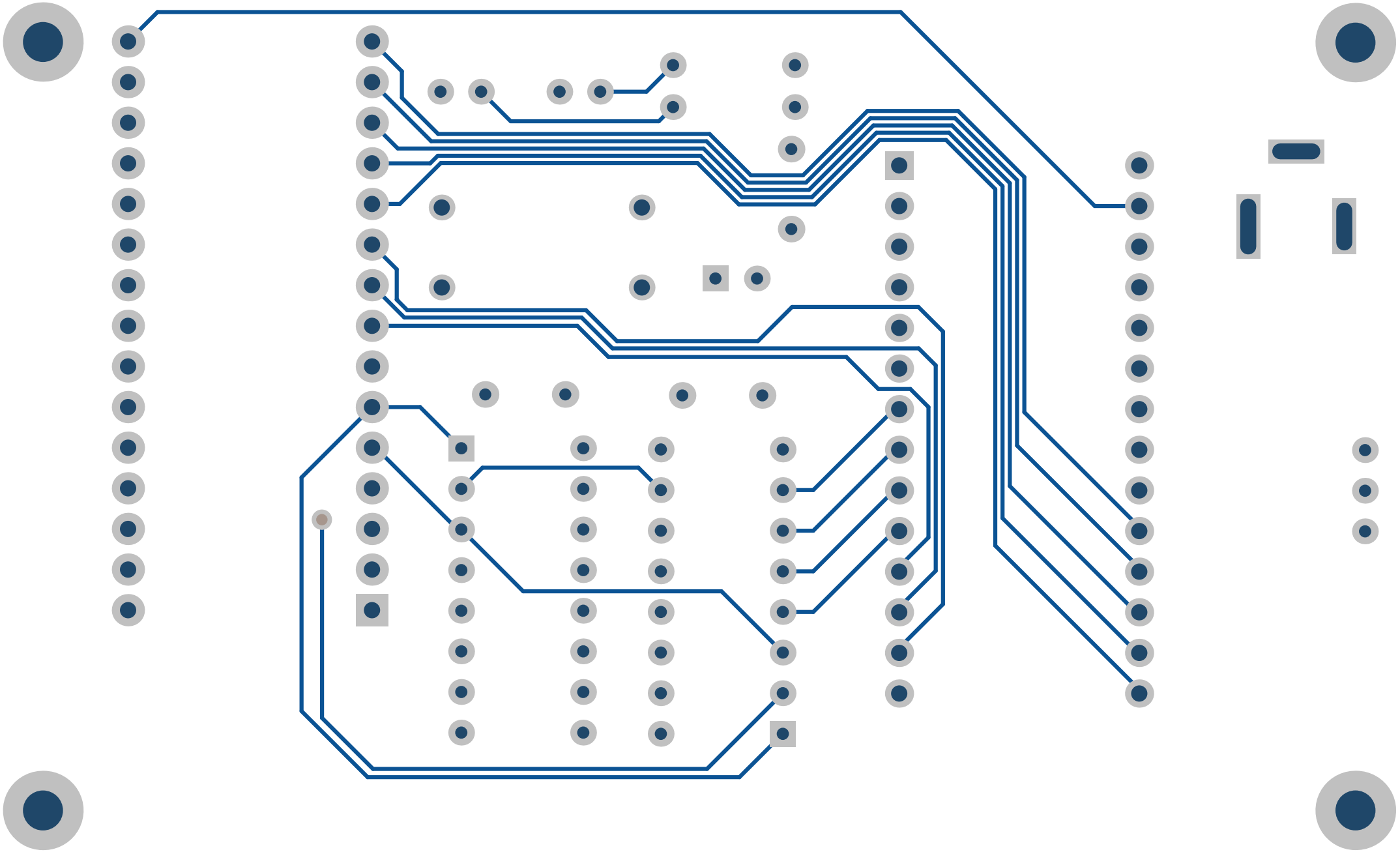

Reset Button
SW1
GND
Power Switch
PWR
SW2
VCC
Power Connector
PW1
Data cascade to QS2 for slow devices.
IC1
CLOCK
DATA
STROBE
OE
QS1
QS2
VCC
GND
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
A0
A1
A2
A3
A4
A5
A6
A7
CD4094BE
Parallel data shifted by 4094 is used as address of memory. From Q1 to Q8 pins, Q1 is less significative bit.
Arduino Nano reset pin is activated when set to GND.
Reset
Clock
Data Cascade
Latch
NANO1
D0/TX
D1/RX
RESET_1
GND_1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
VIN
GND_2
RESET_2
5V
A7
A6
A5
A4
A3
A2
A1
A0
AREF
3V3
D13
Arduino Nano
MEM1
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
CE
OE
WE
I/O0
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
NC
D0
D1
D2
D3
D4
D5
D6
D7
IC2
A8
A9
A10
A11
A12
Status LED pins:
RUNNING -> A4
FINISHED -> A5
Check your code
OE (Output enable signal) is set using most significative bit of data of IC2. Q8
Output Enable Signal
L1
L2
220Ω
R1
R2
Display Indicators
C1
C2
C3
C4
10µF
100nF
Decoupling Capacitors
my LAB PCB
Project: EEProm Programmer AT28C64
Revision: 6
Date: 03-Jun-23
Author: Rafa Hernández


90.00
4.00
4.00
4.00
4.00
11.00
56.01
4.00
4.00
4.00
4.00
19.00
L1
L2
R1
R2
SW1
C4
C1
C2
C3
IC1
IC2
PW1
SW2
ON
OFF
Arduino Nano
NANO1
CD4094BE
CD4094BE
my LAB PCB
EEProm Programmer AT28C64. Rev: 6









# Bill of Materials

| Designator | Description | Value | Q |
|---|---|---|---|
| C1 | Electrolytic capacitor 16v/50v | 10µF | 1 |
| C2, C3, C4 | Ceramic or tantalum capacitor | 100nF | 3 |
| IC1, IC2 | CMOS 8 bits shift register,3 state | CD4094 | 2 |
| L1 | Led 5mm Round | Yellow | 1 |
| L2 | Led 5mm Round | Green | 1 |
| MEM1 | ZIF Socket 28 Wide | 28W | 1 |
| NANO1 | Arduino NANO v3 | v3 | 1 |
| PW1 | DC Power Jack, 2.5 A, 2 mm Center Pin, 3 Position, THT Right An | | 1 |
| R1, R2 | Resistor Axial | 220Ω | 2 |
| SW1 | Tactile button 12 mm | 12 mm | 1 |
| SW2 | Mini slide switch 2 pos, 3 pins | 3 pos | 1 |

# Assembly List

| Designator | Description | Value |
|---|---|---|
| C1 | Electrolytic capacitor 16v/50v | 10µF |
| C2 | Ceramic or tantalum capacitor | 100nF |
| C3 | Ceramic or tantalum capacitor | 100nF |
| C4 | Ceramic or tantalum capacitor | 100nF |
| IC1 | CMOS 8 bits shift register,3 state | CD4094 |
| IC2 | CMOS 8 bits shift register,3 state | CD4094 |
| L1 | Led 5mm Round | Yellow |
| L2 | Led 5mm Round | Green |
| MEM1 | ZIF Socket 28 Wide | 28W |
| NANO1 | Arduino NANO v3 | v3 |
| PW1 | DC Power Jack, 2.5 A, 2 mm Center Pin, 3 Position, THT Right Angle | |
| R1 | Resistor Axial | 220Ω |
| R2 | Resistor Axial | 220Ω |
| SW1 | Tactile button 12 mm | 12 mm |
| SW2 | Mini slide switch 2 pos, 3 pins | 3 pos |