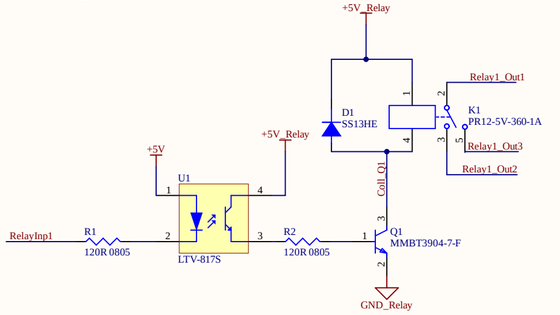
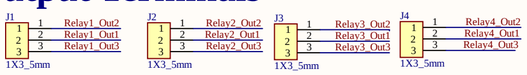
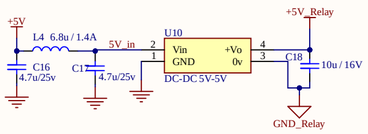
Relay Circuit



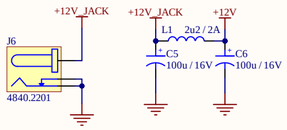
Output Terminals



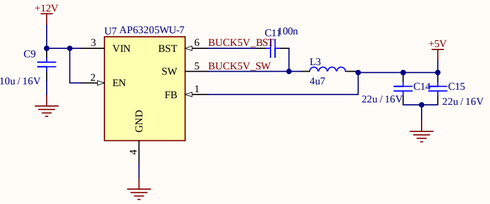
5V-5V Isolation



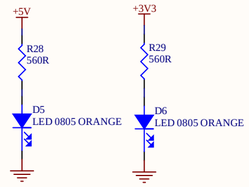
Input Filter



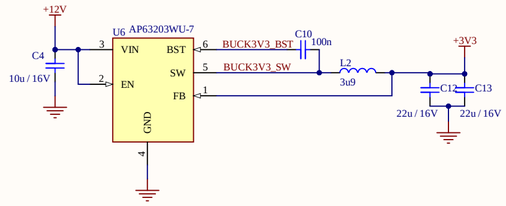
Buck Converter (5V)



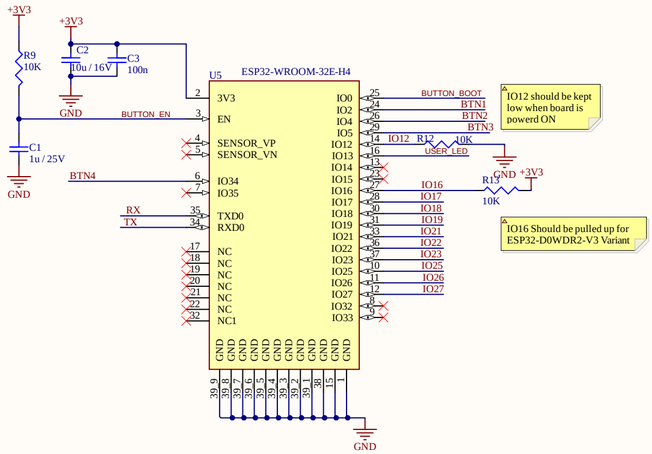
Power ON LEDs



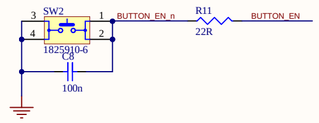
Buck Converter (3V3)



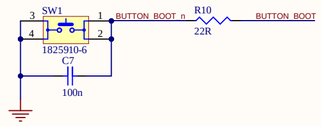
ESP32-WROOM-32E-H4



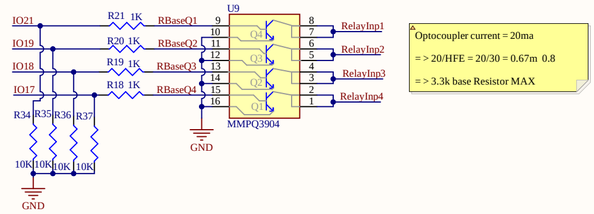
Enable



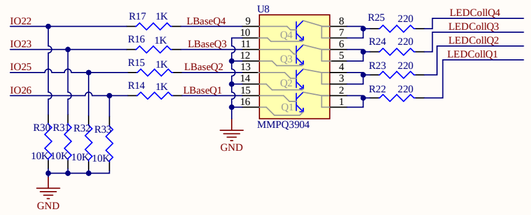
Boot



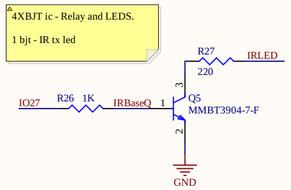
Relay Control



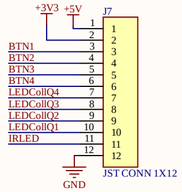
LED Control



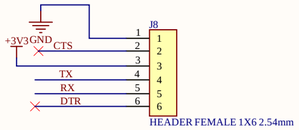
IR LED Control



JST Connector 1X12

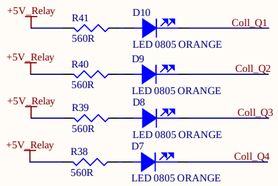


FTDI Programmer



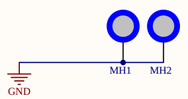
Additional Circuit for Debugging

Relay LED



User LED

Mounting Holes with GND



Mounting Holes without GND

Title	Smart Podium	
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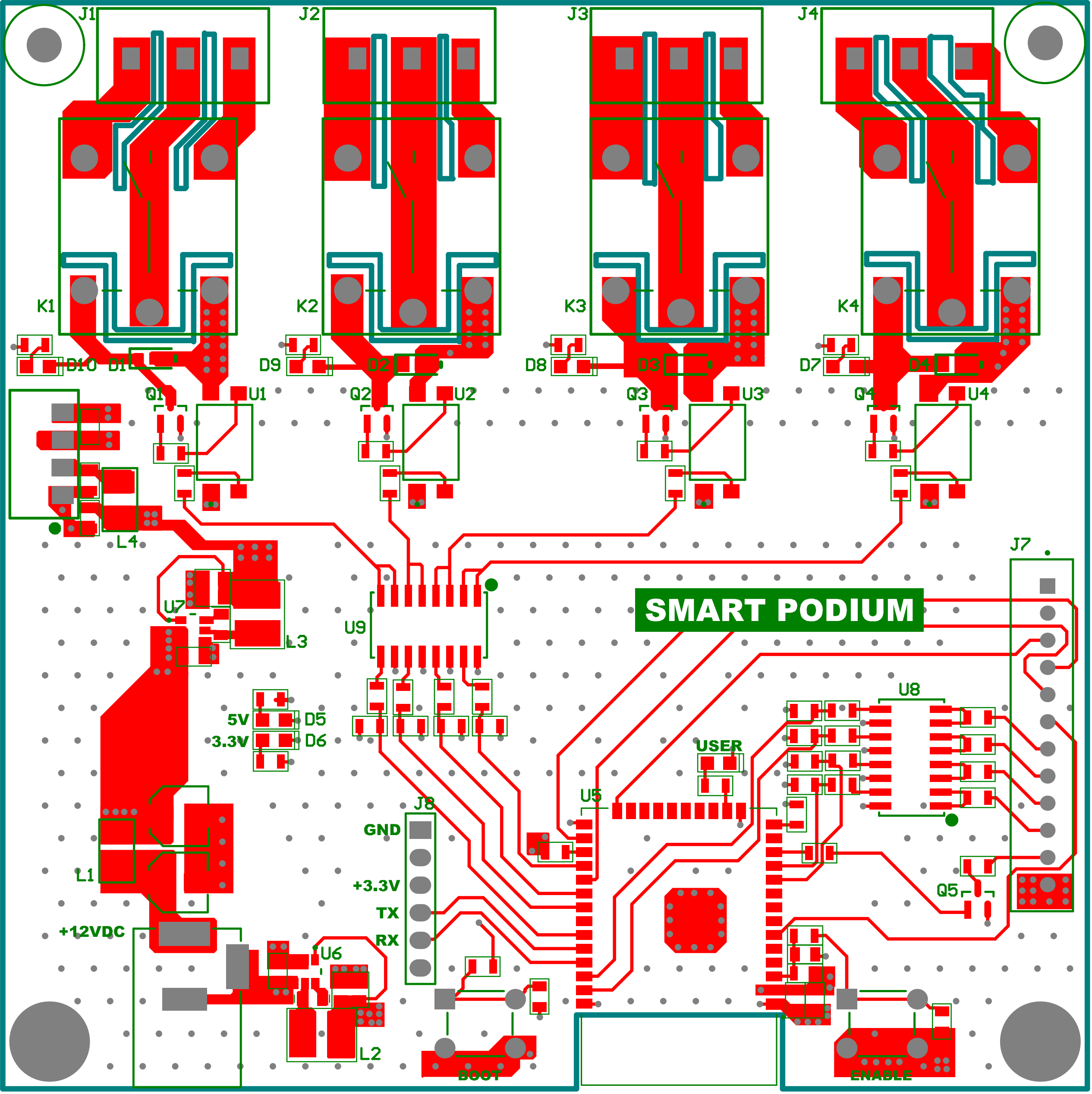
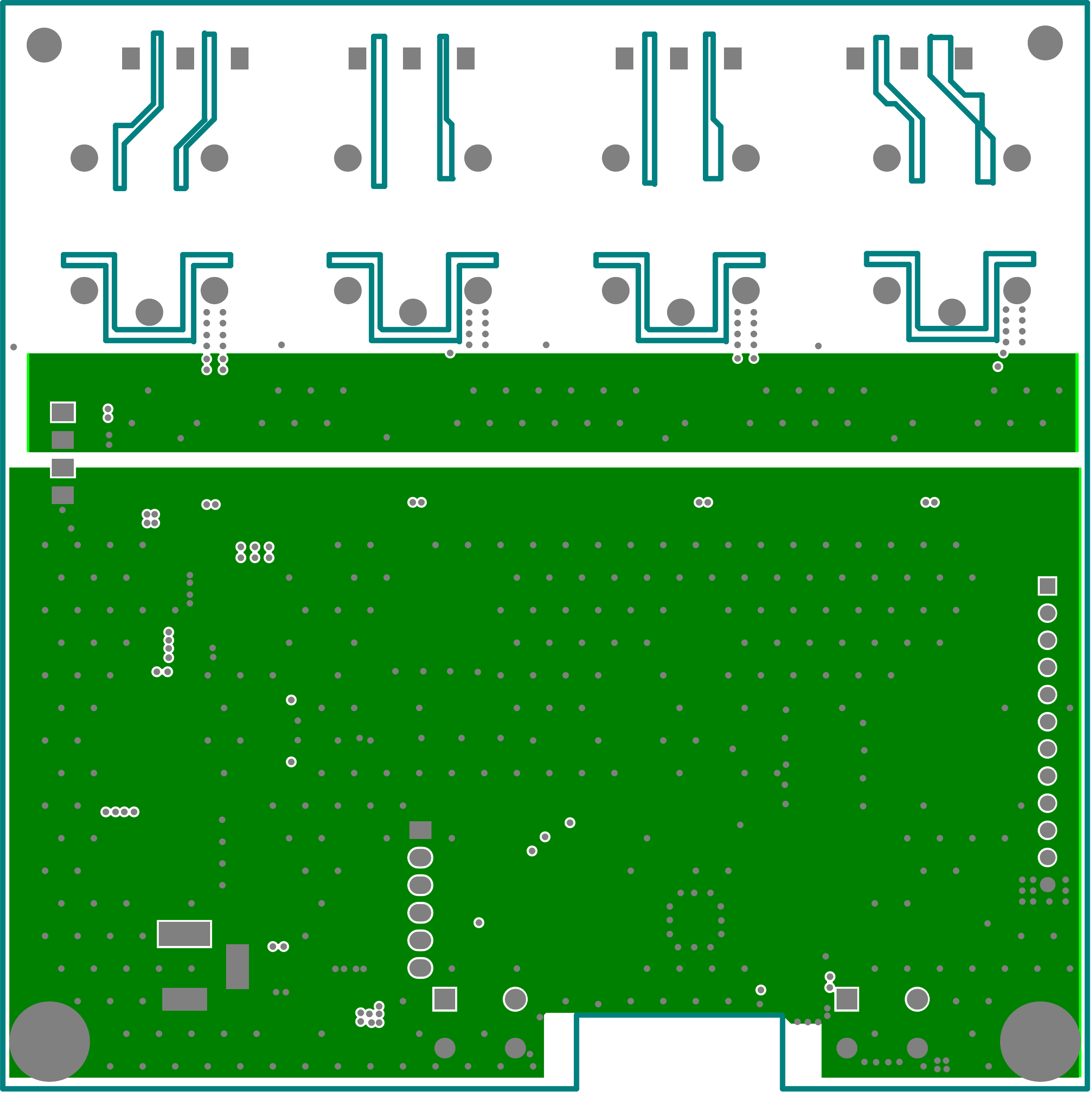
Date: 12-29-2022	Sheet of	
File: C:\Users\..\Smart_Podium_Circuit.SchDoc	Drawn By:	NAMAN TANWAR


J1
J2
J3
J4
K1
K2
K3
K4
D10
D1
D9
D2
D8
D3
D7
D4
Q1
U1
Q2
U2
Q3
U3
Q4
U4
L4
J7
U7
L3
U9
SMART PODIUM
5V
D5
3.3V
D6
U8
USER
U5
J8
GND
+3.3V
TX
RX
L1
Q5
+12VDC
U6
L2
BOOT
ENABLE



Vellore Institute of Technology (Vellore)

IoT Domain Analyst Project

Group Members:

Mohit Banka
Naman Tanwar
Monish Kumar H.S
Sushmit Sanskar

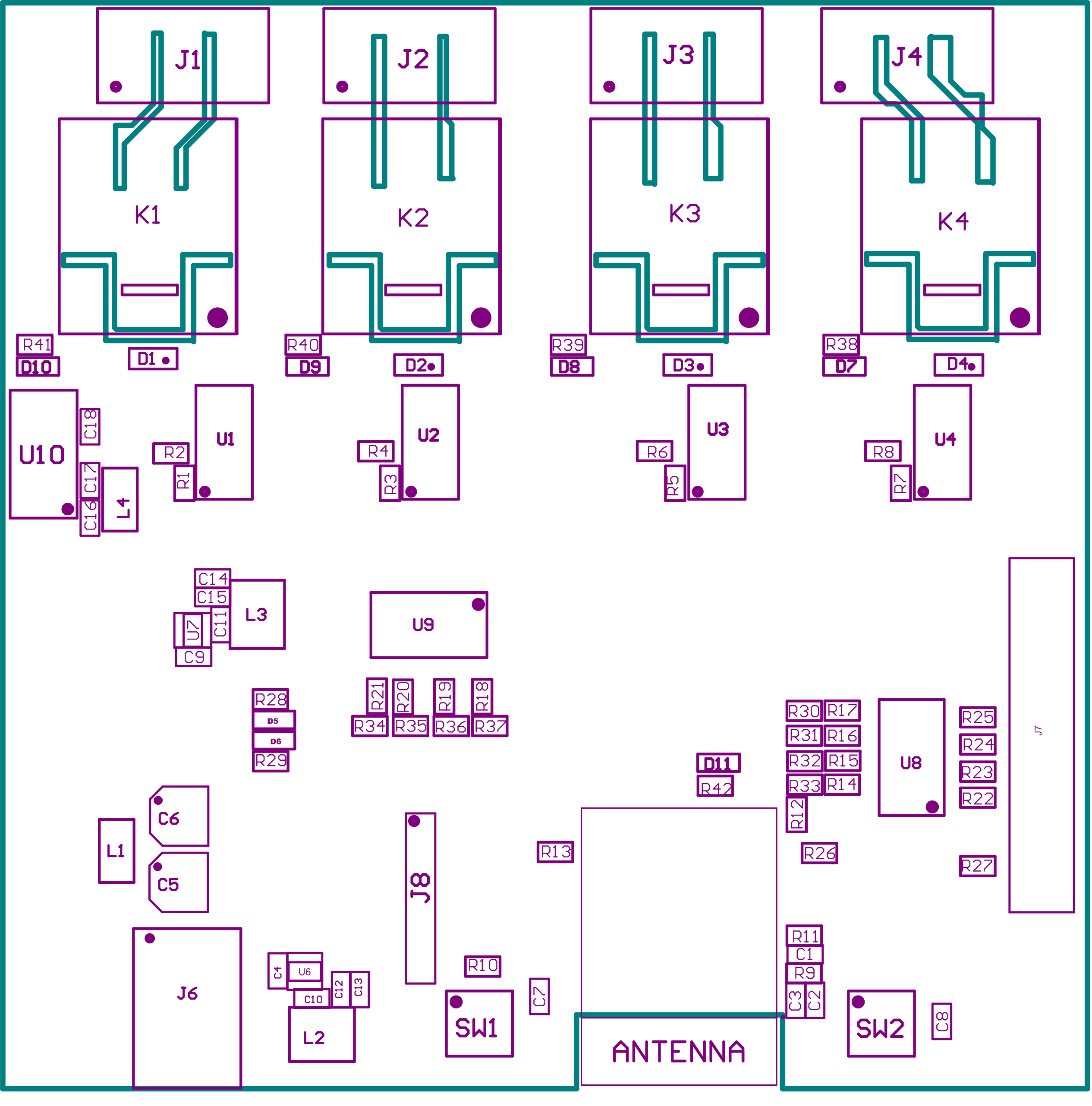
+5V
+3.3V
Button 1
Button 2
Button 3
Button 4
LED 4
LED 3
LED 2
LED 1
IR LED
GND

GND
+3.3V
TX
RX

+5V Relay
+5V

Designed By:

NAMAN TANWAR


J1
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J3
J4
K1
K2
K3
K4
R41
D10
D1
R40
D9
D2
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D8
D3
R38
D7
D4
U10
C18
C17
C16
L4
R2
R1
U1
R4
R3
U2
R6
R5
U3
R8
R7
U4
C14
C15
U7
C11
C9
L3
U9
R28
D5
D6
R29
R21
R20
R19
R18
R34
R35
R36
R37
D11
R42
R30
R31
R32
R33
R17
R16
R15
R14
R12
U8
R25
R24
R23
R22
R27
R26
J7
L1
C6
C5
J8
R13
J6
C4
U6
C10
C12
C13
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R10
SW1
C7
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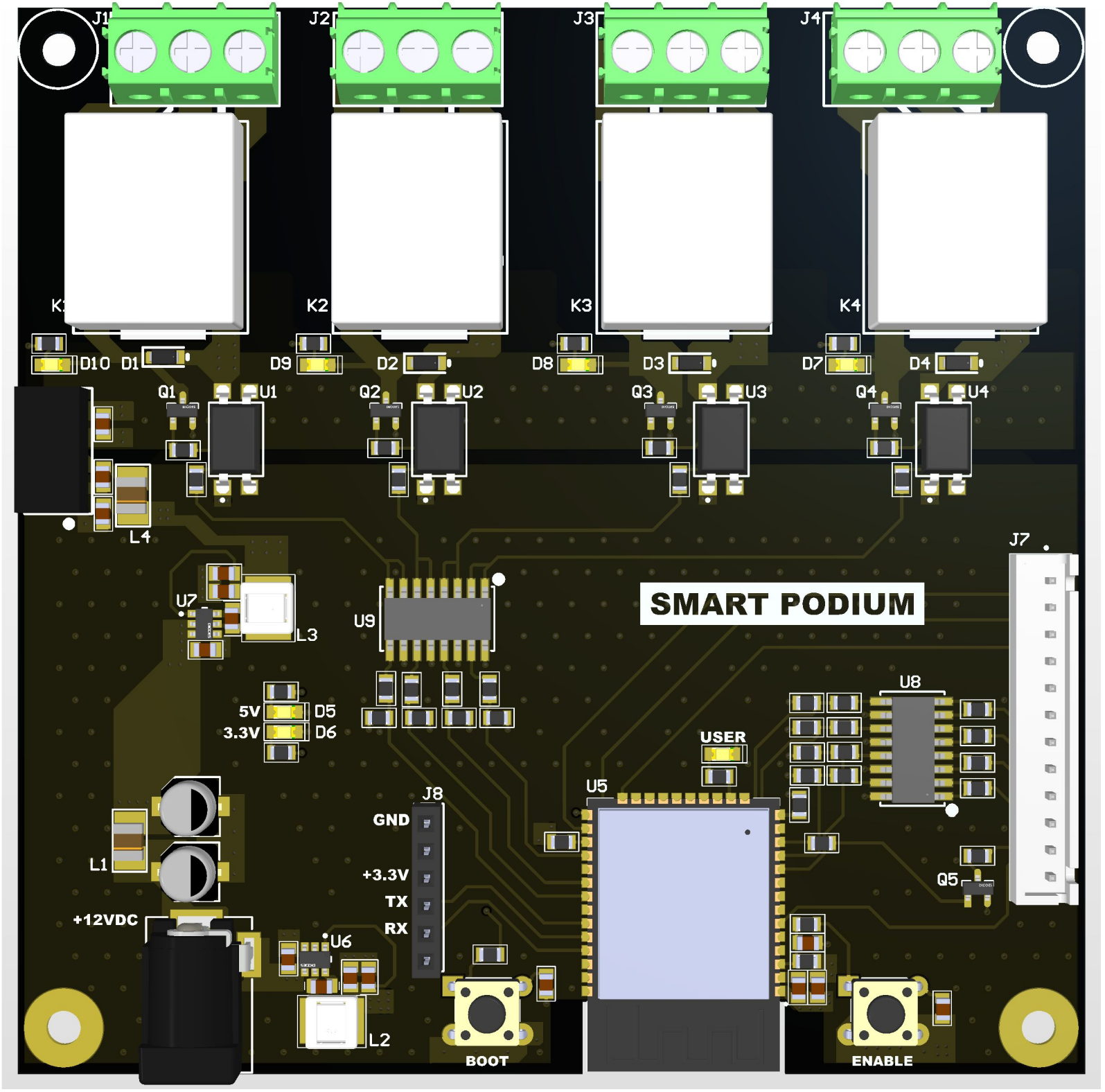
R11
C1
R9
C3
C2
SW2
C8


J1
J2
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K4
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D1
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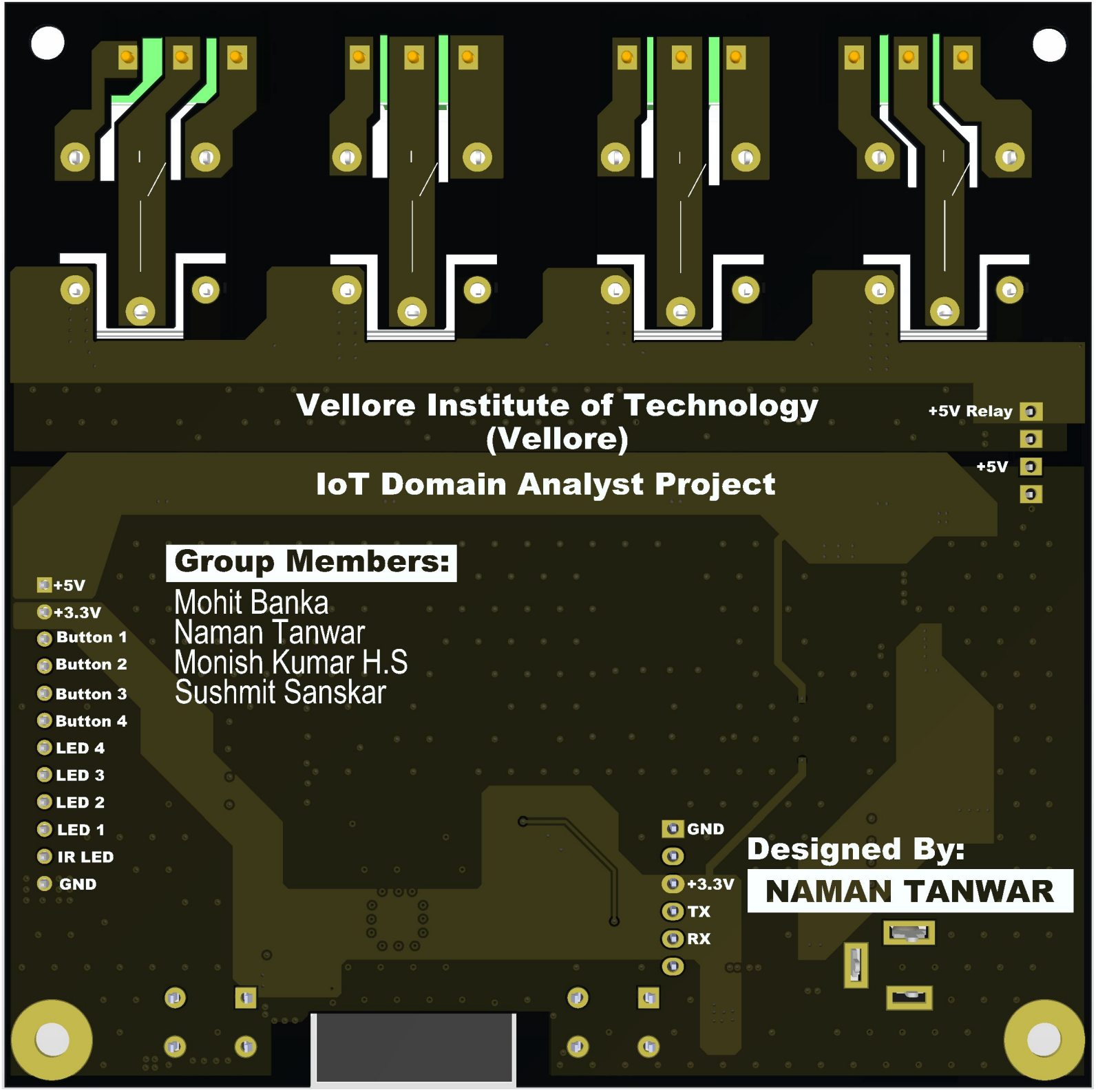
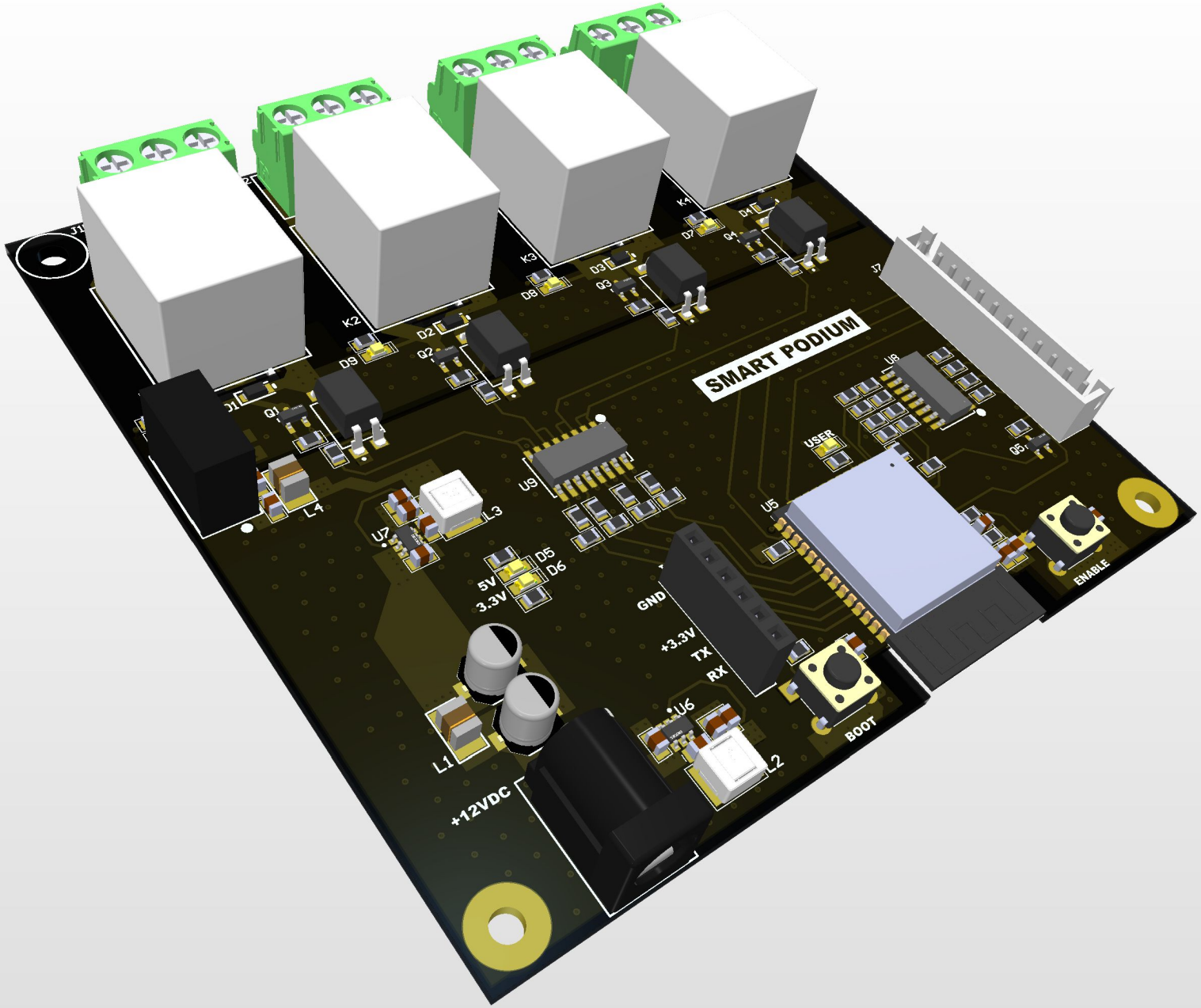
D7
D4
Q1
U1
Q2
U2
Q3
U3
Q4
U4
L4
J7
U7
L3
U9
SMART PODIUM
5V
D5
3.3V
D6
U8
USER
U5
J8
GND
+3.3V
TX
RX
L1
Q5
+12VDC
U6
L2
BOOT
ENABLE


Vellore Institute of Technology
(Vellore)
IoT Domain Analyst Project
+5V Relay
+5V
Group Members:
Mohit Banka
Naman Tanwar
Monish Kumar H.S
Sushmit Sanskar
+5V
+3.3V
Button 1
Button 2
Button 3
Button 4
LED 4
LED 3
LED 2
LED 1
IR LED
GND
GND
+3.3V
TX
RX
Designed By:
NAMAN TANWAR


SMART PODIUM
K1
K2
K3
K4
D1
D2
D3
D4
D5
D6
D7
D8
D9
Q1
Q2
Q3
Q4
Q5
U5
U6
U7
U8
U9
L1
L2
L3
L4
J1
J7
USER
ENABLE
BOOT
5V
3.3V
GND
+3.3V
TX
RX
+12VDC