

EE201L Detour lab (original)

	GL	G1	G2	GR
Idle State	<○ ○	○ ○	○ ○	○ ○>
R1 State (G1 is ON)	<○ ○	● ●	○ ○	○ ○>
R12 State (G1, G2 are ON)	<○ ○	● ●	● ●	○ ○>
R123 State (G1, G2, GR are ON)	<○ ○	● ●	● ●	● ●>
Idle State	<○ ○	○ ○	○ ○	○ ○>
L1 State (G2 is ON)	<○ ○	○ ○	● ●	○ ○>
L12 State (G2, G1 are ON)	<○ ○	● ●	● ●	○ ○>
L123 State (G2, G1, GL are ON)	● ●	● ●	● ●	○ ○>

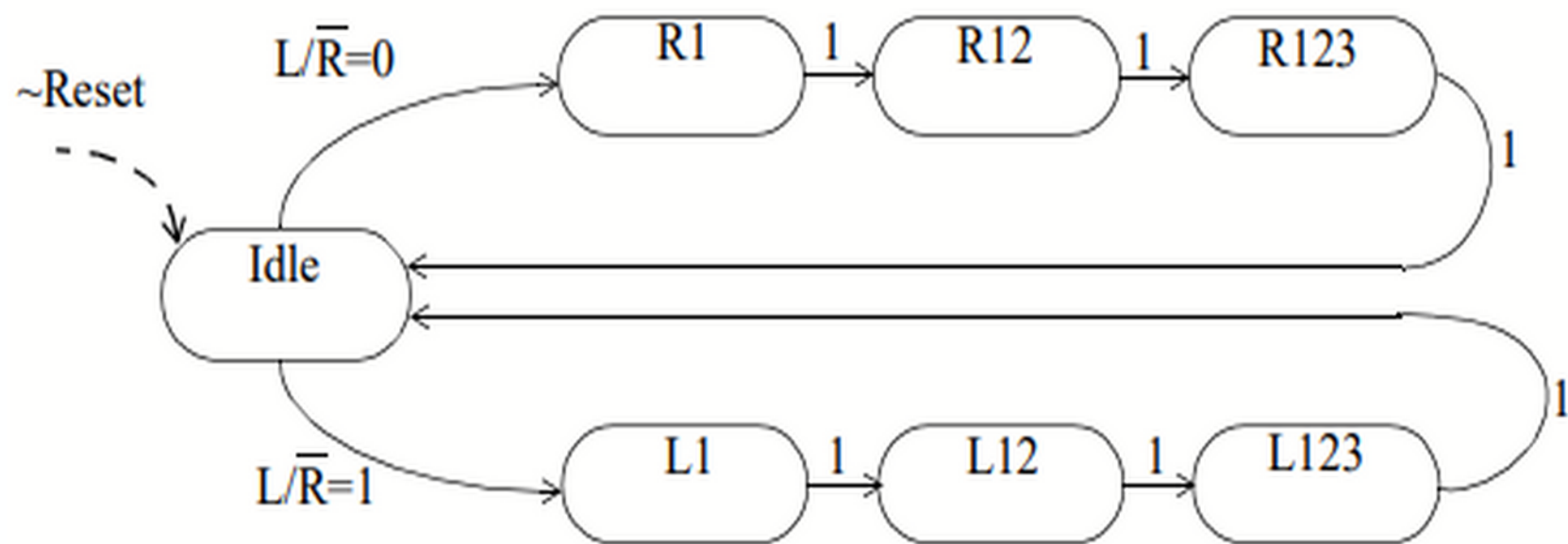


Fig 2: State diagram for the Detour Signal design

EE201L Detour lab (modified)

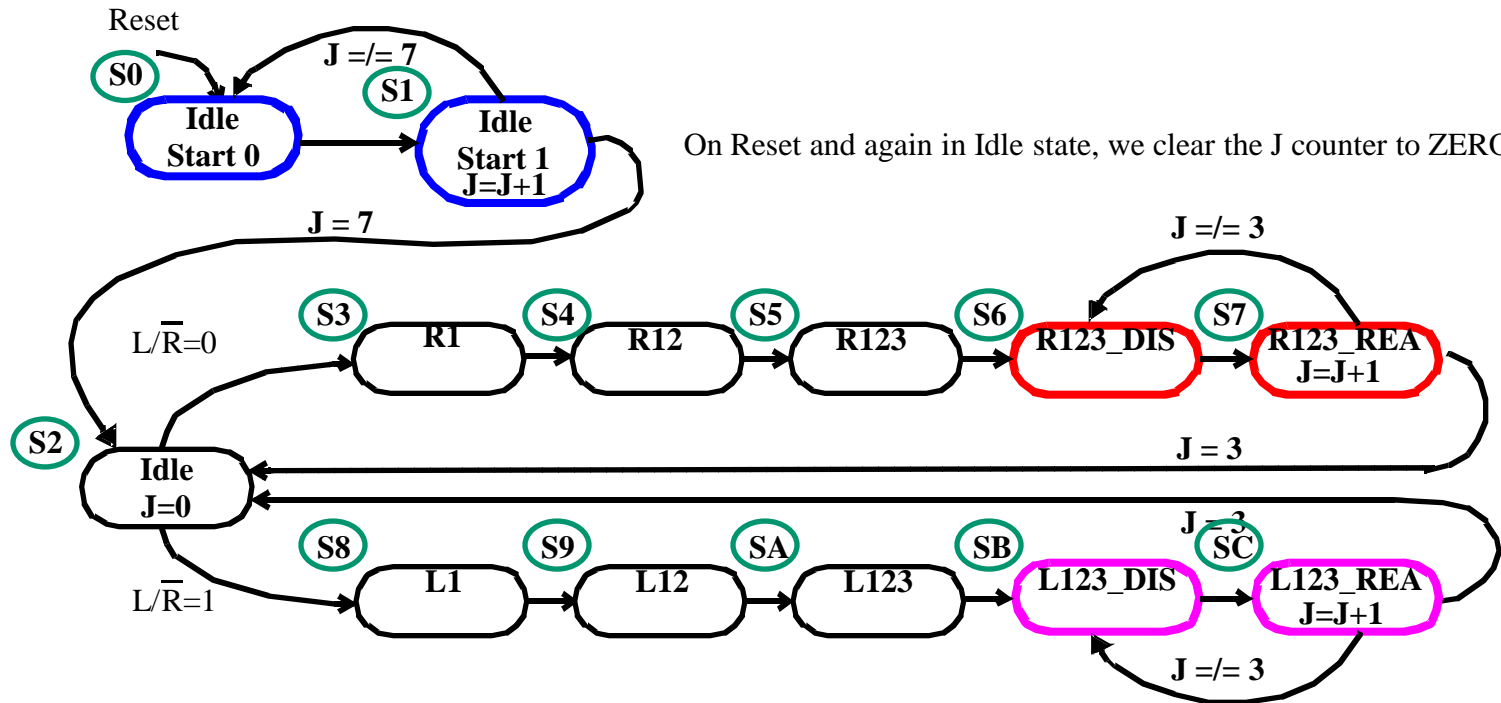
		GL	G1	G2	GR		
0	IS0 (Idle Start 0) State	<○	○	○	○	>	
1	IS1 (Idle Start 1) State	<●	●	●	●	>	
2	I (Idle) State	<○	○	○	○	>	
3	R1 State (G1 is ON)	<○	○	●	●	○	>
4	R12 State (G1, G2 are ON)	<○	○	●	●	●	>
5	R123 State (G1, G2, GR are ON)	<○	○	●	●	●	>
6	R123_DIS State (all OFF)	<○	○	○	○	○	>
7	R123_REA State (G1, G2, GR are ON)	<○	○	●	●	●	>
8	I (Idle) State	<○	○	○	○	○	>
9	L1 State (G2 is ON)	<○	○	○	●	●	>
A	L12 State (G2, G1 are ON)	<○	○	●	●	○	>
B	L123 State (G2, G1, GL are ON)	<●	●	●	●	○	>
C	L123_DIS State (all OFF)	<○	○	○	○	○	>
	L123_REA State (G2, G1, GL are ON)	<●	●	●	●	○	>

Starting LAMP TEST by
~~16~~ times flashin all lights
8

Disappear/Reappear
sequence ~~16~~ times
4

Disappear/Reappear
sequence ~~16~~ times
4

Modified Detour lab state diagram



During Reset it remains in **S0** state.

After Reset, it does **S0 S1** eight times.

Then it does one of the two depending upon $\overline{L/R}$.

