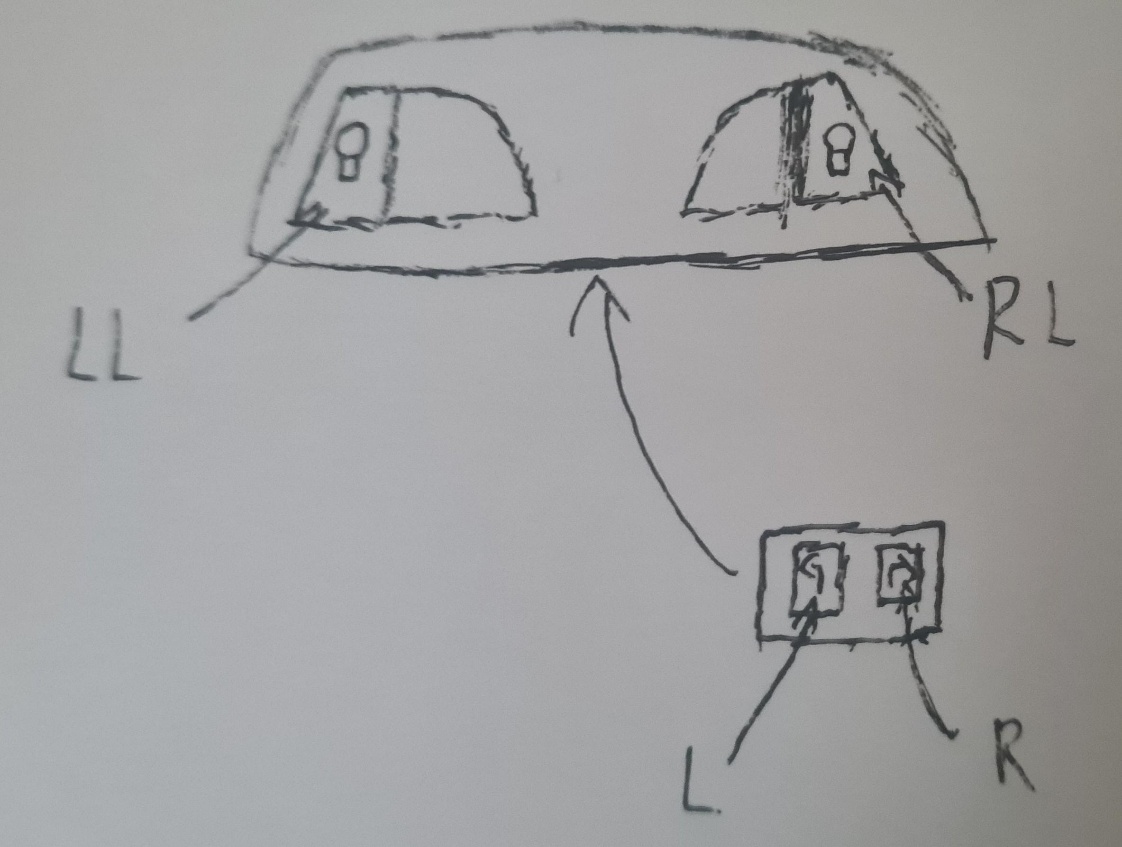
Hilkia Kennan Latjandu\_2602174485\_L1BC



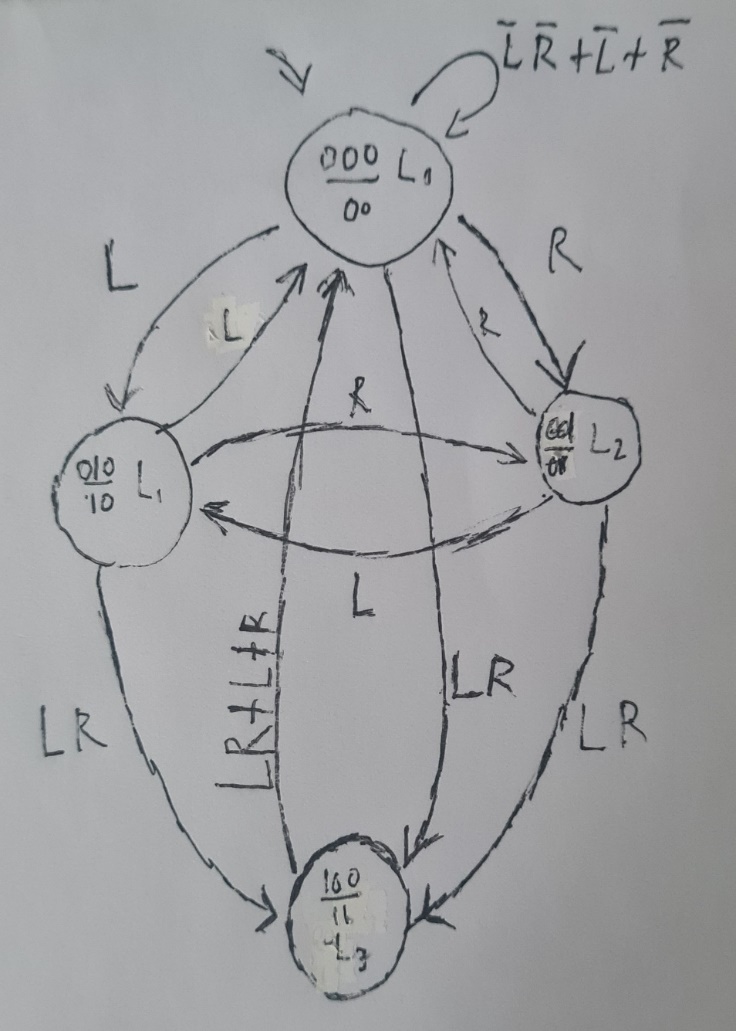
The starting phase all turn lights are off. If the left button/L button is pressed then left turn light/LL will flicker and if the right button/R is pressed then the right turn light will flicker/RL. If LL is flickering and L is pressed then LL will turn off/return to starting state and if RL is flickering and R is pressed then RL will turn off. If LL is flickering and R is pressed then LL will turn off and RL will flicker, and if RL is flickering and L is pressed then RL will turn off and LL will flicker. If at any phase both R and L are pressed then both LL and RL will flicker, and if both LL and RL are flickering then pressing any button will return it into starting state.

There are 4 phases:

1. Start state (all lights are off)
2. LL is flickering and RL is off
3. LL is off and RL is flickering
4. Both LL and RL are flickering

There are 2 inputs:

1. L (left button)
2. R (right button)



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Present/Current/Beginning  State | | Input | | Output/Next  State | |
| P1 | P2 | I1 | I2 | N1 | N2 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | 1 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 1 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Possible inputs/state | While all light off  Current state = 00 | While left lights on  Current state = 10 | While right lights on  Current state = 01 | While both lights on  Current state = 11 |
| 00 | All Lights Off | All Lights Off | All Lights Off | All Lights Off |
| 01 | Right light Blinking | Right light Blinking | All Lights Off | All Lights Off |
| 10 | Left light blinking | All Light Off | Left light blinking | All Lights Off |
| 11 | Both lights blinking | Both lights blinking | Both lights blinking | All Lights Off |

A picture containing text, electronics, white, keyboard

Description automatically generated Diagram

Description automatically generated

A picture containing text, whiteboard, outdoor, several

Description automatically generated

A picture containing diagram

Description automatically generated A picture containing diagram

Description automatically generated

A close-up of some writing

Description automatically generated with low confidence