1. Project Name:

LED STRING ANIMATION\_PO5\_CYRS

1. Content table

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1. Document Status:

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| --- | --- | --- | --- |
| Version | Author | Date | Status |
| 2.1 | Youssef Kamal | 29/1/2020 | Draft |

# Document History:

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| --- | --- | --- | --- |
| Version | Author | Date | Change Description |
| 1.0 | Menna Mostafa | 23/1/2020 | Initial Creation for  Structure of strings of LEDs used to provide Tail and TI functions based on some input signals. |
| 1.1 | Youssef Kamal | 25/1/2020 | As mentioned in review sheet.   * Changing document sequence. * Changing status section * Changing the header of the requirements section |
| 2.0 | Menna Mostafa | 29/1/2020 | Change Req\_2 & Req\_3 according to the review. |
| 2.1 | Youssef Kamal | 29/1/2020 | Adding Input Signal to Block Diagram |

# Project Description:

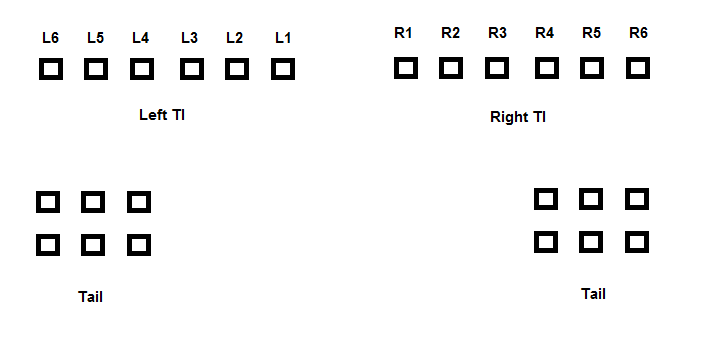
## Project Functionalities:

Strings of LEDS are used to provide Tail and TI functions based on some input signals.

## Block diagram:

TI Switch (Tri State Flip Switch)

Breaks (Tail Switch) (Tactile witch)



# Requirements description:

Req \_ LED STRING ANIMATION\_PO5\_CYRS\_001-V01 \_ Imp # HW&SW

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At startup, **WELCOME** **mode** shall be one of the following modes:

First mode:

LEDS from L6 to L1 will be ON then from R1 to R6 will be ON

Then all LEDS will be OFF

Then from R6 to R1 will be ON then L1 to L6 will be ON

Then all LEDS will be off

Then all LEDS are ON and OFF

Second mode:

LEDS from R1 to R6 are ON LED by LED and at same time L1 to L6 are ON LED by LED

Then repeat this scenario again.

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Req \_ LED STRING ANIMATION\_PO5\_CYRS\_002-V02 \_ Imp # SW

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Tail LEDs will be ON if Tail switch is ON and will be OFF if Tail switch is OFF.

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Req \_ LED STRING ANIMATION\_PO5\_CYRS\_003-V02 \_ Imp # SW

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When TI switch is ON then TI function will be activated, LEDS from R1 to R6 or from L1 to L6 will be activated and if TI switch is OFF then TI function will be deactivated.

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