

system description:

- Microcontroller layer
- MCAL Layer:
 1. DIO Driver:

Driver can be used to controller pins input/output. Driver can be used to initialize, read, write, toggle pins.
 2. Interrupt Driver:

Driver can be used to enabling global interrupt, enabling external interrupt 0 with rising edge, enabling Timer0 overflow interrupt.
 3. Timer Driver:

Driver can be used to initialize, set initial value, start, stop, reset, delay Timer0.
- ECUAL Layer:
 1. BTN Driver:

Driver can initialize, read pin.
 2. LED Driver:

Driver can initialize, set Haigh, low, toggle pin.
- Application Layer:
 1. Driver can initialize registers and running app.

Application

Start App

ECUAL

button driver

LED driver

MCAL

DIO driver

Timer driver

interrupt driver

Utilities

Registers

Macros

Microcontroller