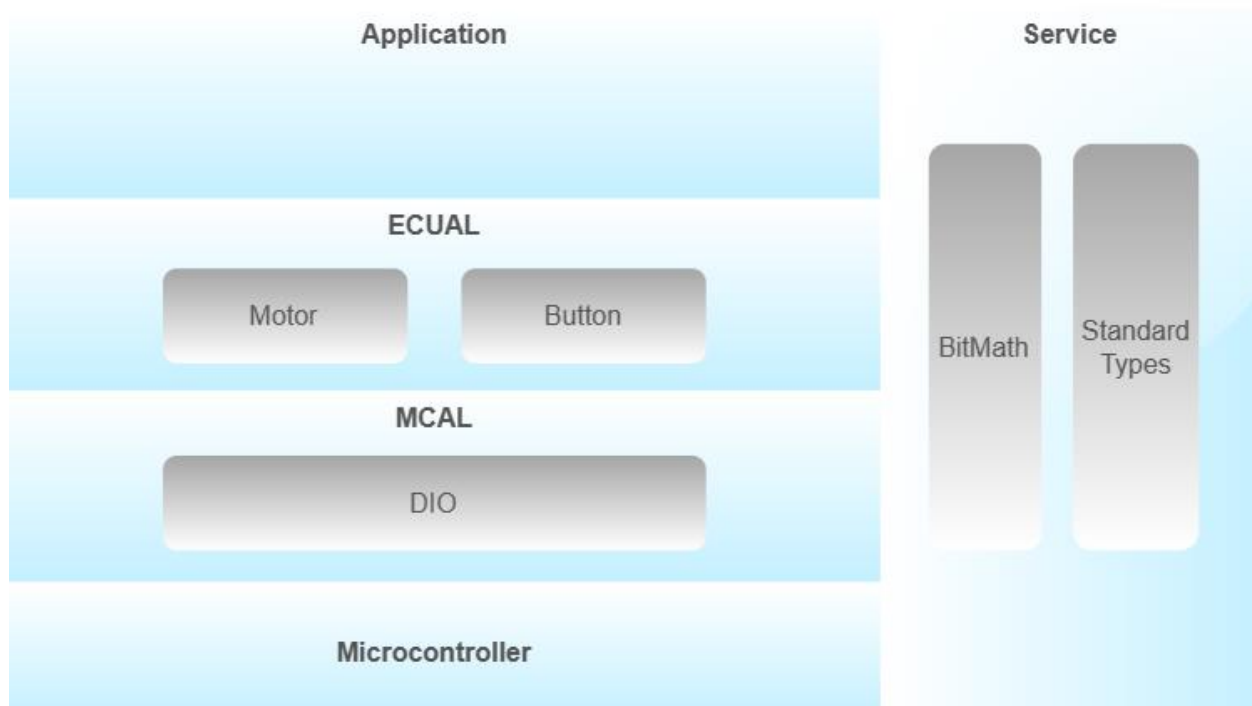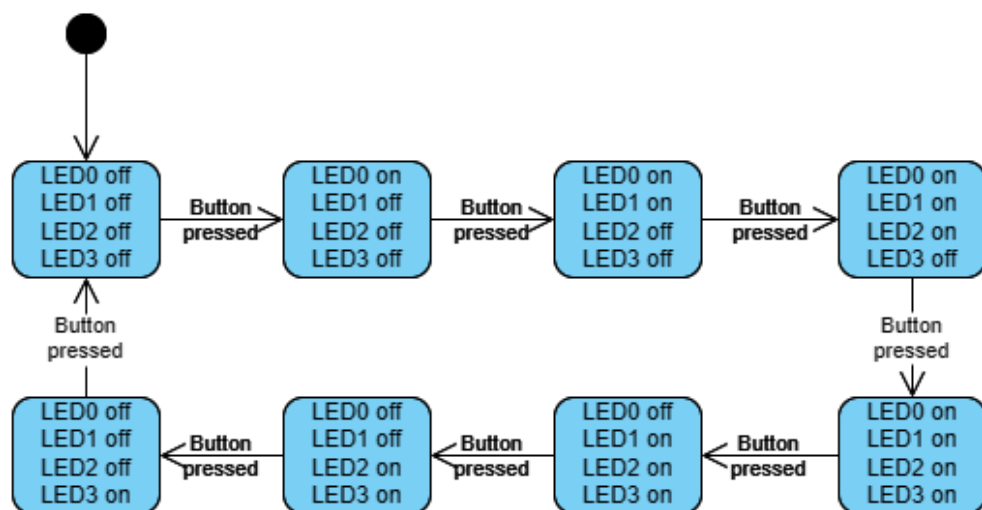# LED SEQUENCE V 1.0

LAYERED ARCHITECTURE
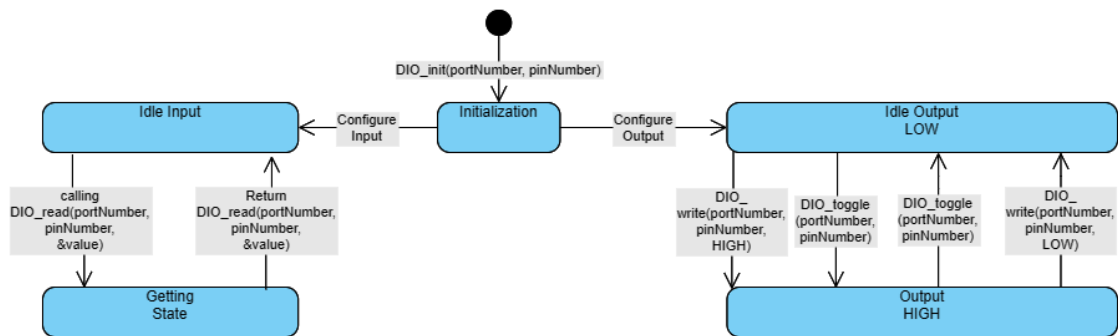

STATE MACHINE DIAGRAM
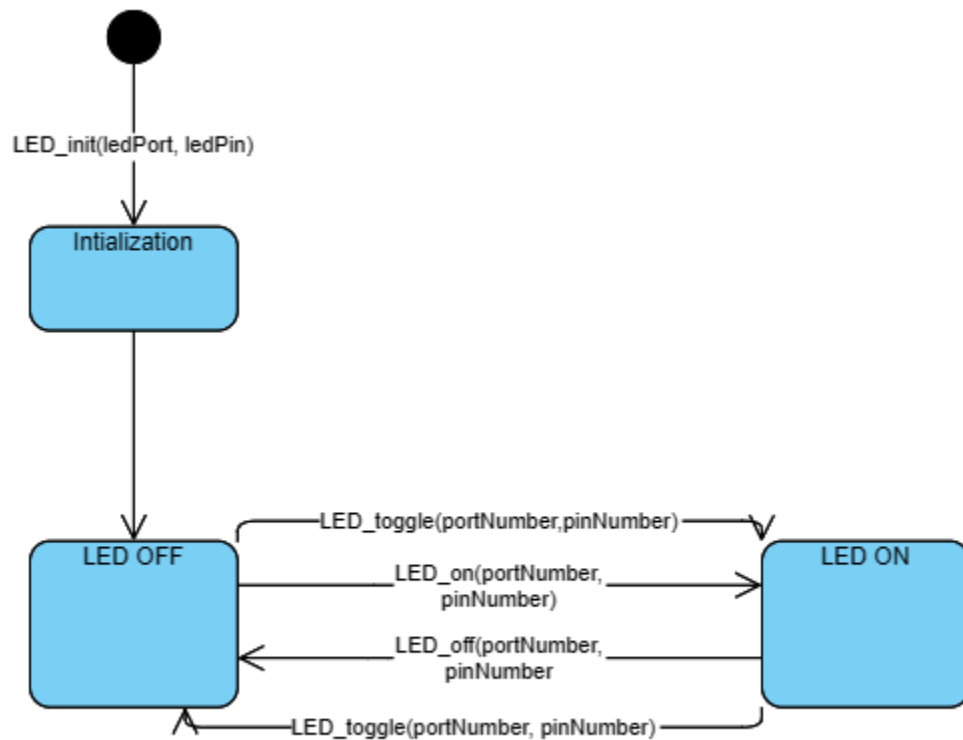
DRIVERS APIs STATE DIAGRAMS

DIO

LED

BUTTON

```
        ●
        │
   BUTTON_init
 (buttonPort, buttonPin)
        │
        ▼
  ┌──────────────┐
  │ Inrtialization │
  └──────────────┘
        │
        ▼
  ┌──────────────────────────┐
  │           Idle           │
  └──────────────────────────┘
      │                  ▲
    Calls             Returns
 BUTTON_read(       BUTTON_read(
  buttonPort,        buttonPort,
  buttonPin,         buttonPin,
 &buttonState)      &buttonState)
      ▼                  │
  ┌──────────────────────────┐
  │       Getting State      │
  └──────────────────────────┘
```