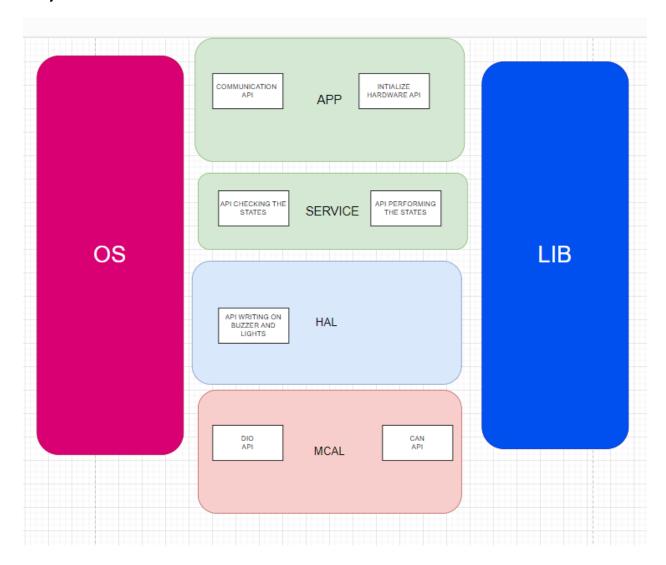
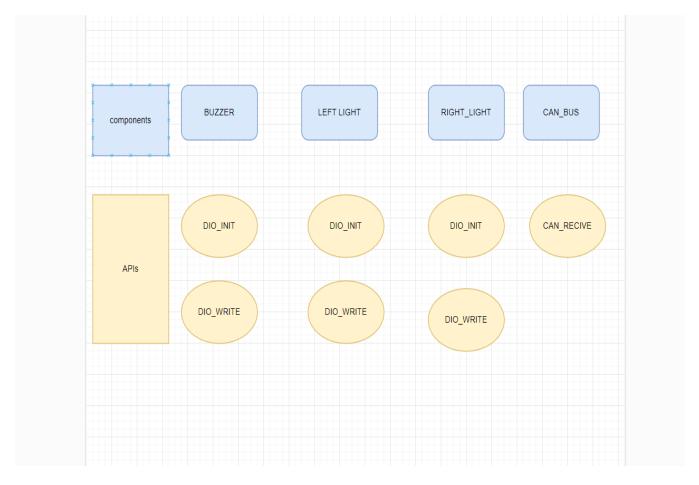
Static design for ECU2

Layered architecture

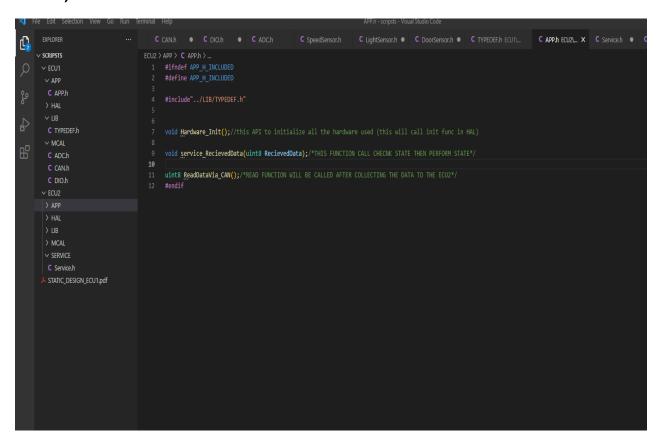


COMPONENTS AND MODULES



BUZZER ,LIGHTS,CAN_BUS

APP, APIs



Void Hardware_Init()

To initialize all the hardware I have bu calling all init function in HAL layer

Void Service_RecievedData(uint8 ReciecvedData)

This func call

STATES checkstates();Then

void perform_states(STATES state); from service layer

So the received data be recognized and performing the actions according this checkState

SERVICE APIS

STATES checkState(uint8 ReceivedData);

This function check the received data from can and return if the STATE was(A,B,C,D,E,F)

Void PerformStates(STATES state);

This function perform the state as described in the rubric

As it call buzzer functions and lights functions

TYPEDEFS

```
File Edit Selection View Go Run Terminal Help

√ SCRIPSTS

       C APP.h
       > HAL
                                             typedef unsigned int uint8;
      ∨ LIB
                                             typedef unsigned int State;
       C TYPEDEF.h
品
      C CAN.h
                                                 STATE_A,
       C DIO.h
                                                 STATE_B,

✓ ECU2

      > APP
                                                 STATE_D,
                                             STATES;
       C TYPEDEF.h
      > SERVICE
     ▶ STATIC_DESIGN_ECU1.pdf
```

HAL APIs

```
File Edit Selection View Go Run Terminal Help

EDPLORER

... C CANh C C DIOJh C C ADCh C SpeedSensorth C LightSensorth C C DIOJh C ADCh C SpeedSensorth C LightSensorth C DIOJh C ADCh C SpeedSensorth C LightSensorth C DIOJh C ADCh C SpeedSensorth C LightSensorth C DIOJh C ADCh C DIOJh C DIOJh C DIOJh C DIOJh C DIOJh C DIOJh C CANCh C DIOJh C C ADCh C
```

MCAL APIs

```
typedef enum {
   LOM,
   HOM
   HOM
   JEVEL_DATA;

   typedef enum {
        PING,
        PING,
```

