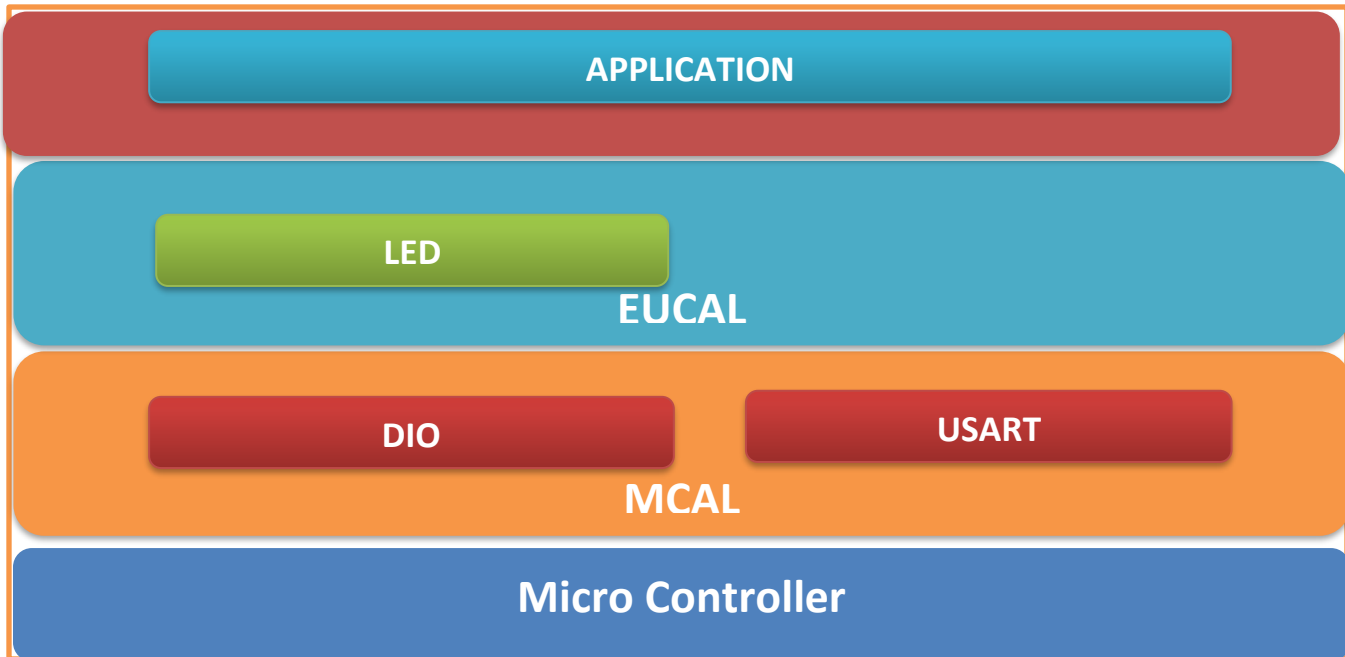


## Static Design For USART TASK

Mohamed Nasser EL-Kholy (Node Geeks Team)

- Design of The System, and Layered Architecture



## - API For The System

### DIO API's :-

void MDIO\_voidSetPinDirection (u8 copy\_u8Port , u8 copy\_u8Pin , u8 copy\_u8Direction ) ;

void MDIO\_voidSetPortDirection (u8 copy\_u8Port , u8 copy\_u8Direction ) ;

void MDIO\_voidSetPinValue (u8 copy\_u8Port , u8 copy\_u8Pin , u8 copy\_u8Value ) ;

void MDIO\_voidSetPortValue (u8 copy\_u8Port , u8 copy\_u8Value ) ;

u8 MDIO\_voidGetPinValue (u8 copy\_u8Port , u8 copy\_u8Pin );

void MDIO\_voidTogglePin (u8 copy\_u8Port , u8 copy\_u8Pin ) ;

### USART API's :-

void USART\_voidUsartInit(void);

void USART\_voidUsartSendChar(u8 copy\_u8Data);

u8 USART\_u8UsartReceiveChar(void);

void USART\_voidUsartSendString(u8 \*copy\_u8PtrData);

void USART\_voidUsartReceiveString(u8 \*copy\_u8PtrStr);

### LEDs API's :-

void EULED\_voidLEDInit(u8 copy\_u8Port , u8 copy\_u8PinNum );

void EULED\_voidLedON(u8 copy\_u8Port, u8 copy\_u8PinNum ) ;

void EULED\_voidLedOFF (u8 copy\_u8Port, u8 copy\_u8PinNum ) ;

void EULED\_voidLedToggle(u8 copy\_u8Port, u8 copy\_u8PinNum ) ;

### Application API's:-

void APP\_voidInit(void);

void APP\_voidUpdate(void);

void APP\_voidAT (void);

void APP\_voidStart(void);

void APP\_voidStop (void);

void APP\_voidWait (void);

## State Machine For The System :-

