Project design architecture Planner

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| Application | Interactors | Modules | LibOpenCM3 |
| #include interactors  Call of generic functions. E.g.  OpenComm(  Speed, direction, type)  Write\_comm(  threshold)  State machine(){  …  } | low level app: Configuration and parameters layer, selects and configures hardware implementation.  #Include Architecture  #Include Modules  #include Global // offer Interrupt flags to application  temp\_sensor/  temp\_sensor\_params.h  //adc parameters  #define USE\_I2C\_ADC  temp\_sensor.c  #include "temp\_sensor\_params.h"  #ifdef USE\_I2C\_ADC  #include "i2c\_adc.h"  #else  #include "uc\_adc.h"  #endif  //functions  temp\_sensor.h  Console interaction/  OpenComm(){  setupUsart()  }  writeComm(){  UsartWrite();  }  GPIO interaction/ | Interacts with LL HAL and offers module interaction to higher layers.  UsartxHandler {  BaudRate, WordLenght, StopBits, Parity, Mode, HwControl}  Enum usartMode{  RX, TX, RXTX}  Enum speed{ 9600, 11400, 16800….}  setupUsart(){  UsartClock()  UsartMode()  EnableUsart()  }  //Interruptions  Int tim2\_isr{  } |  |