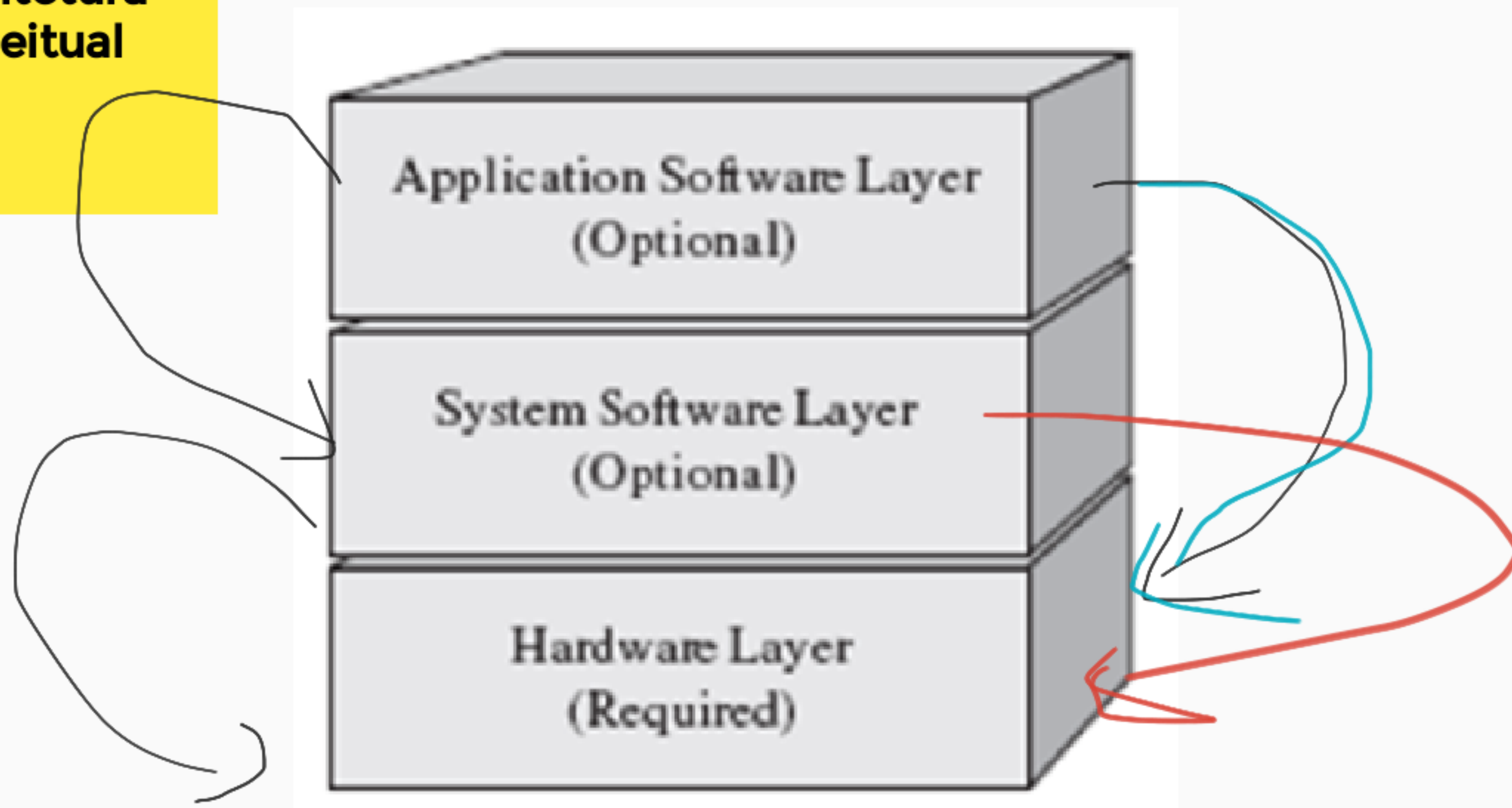
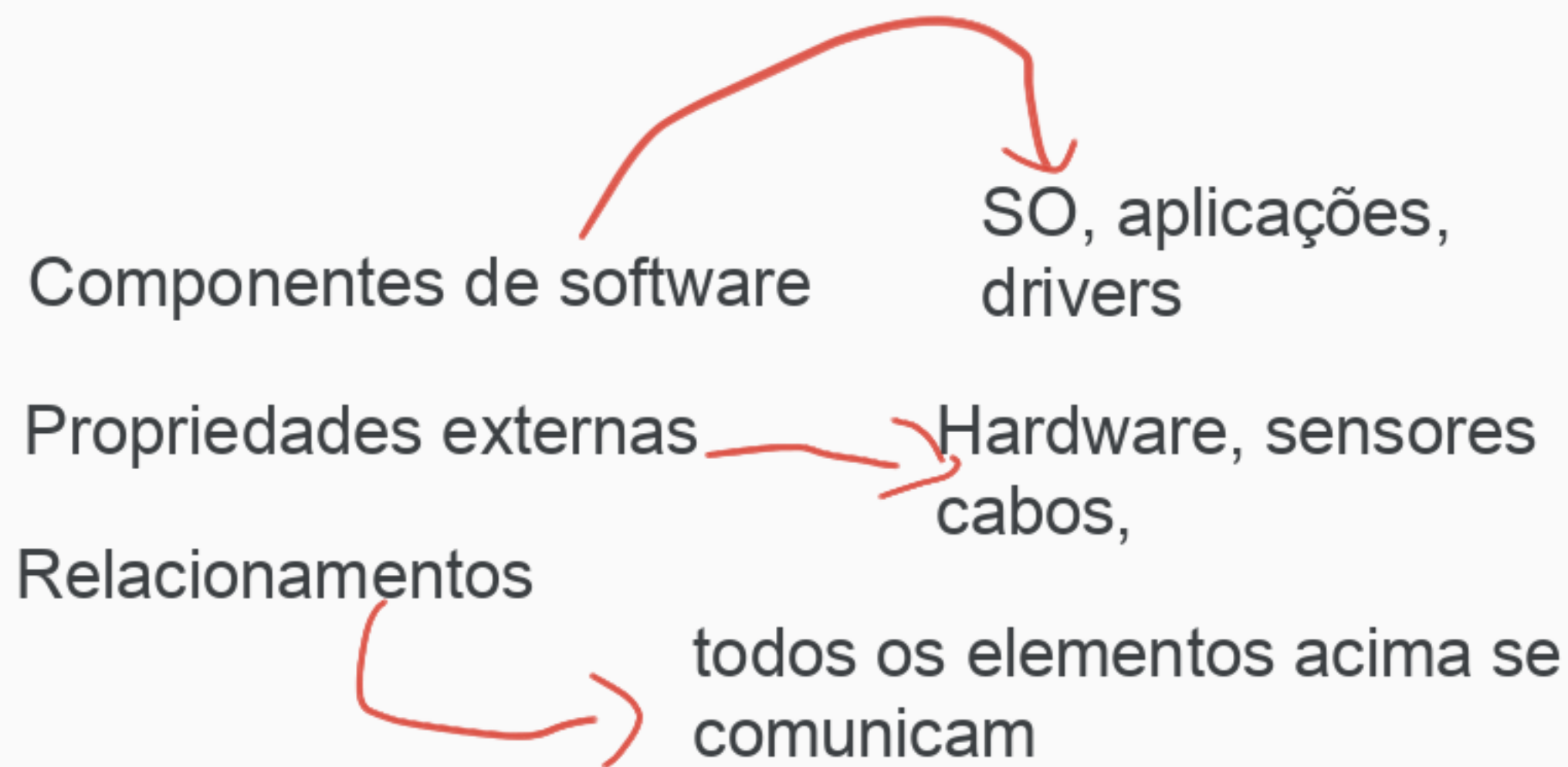


Arquitetura de sistemas embarcados

**Arquitetura
conceitual**

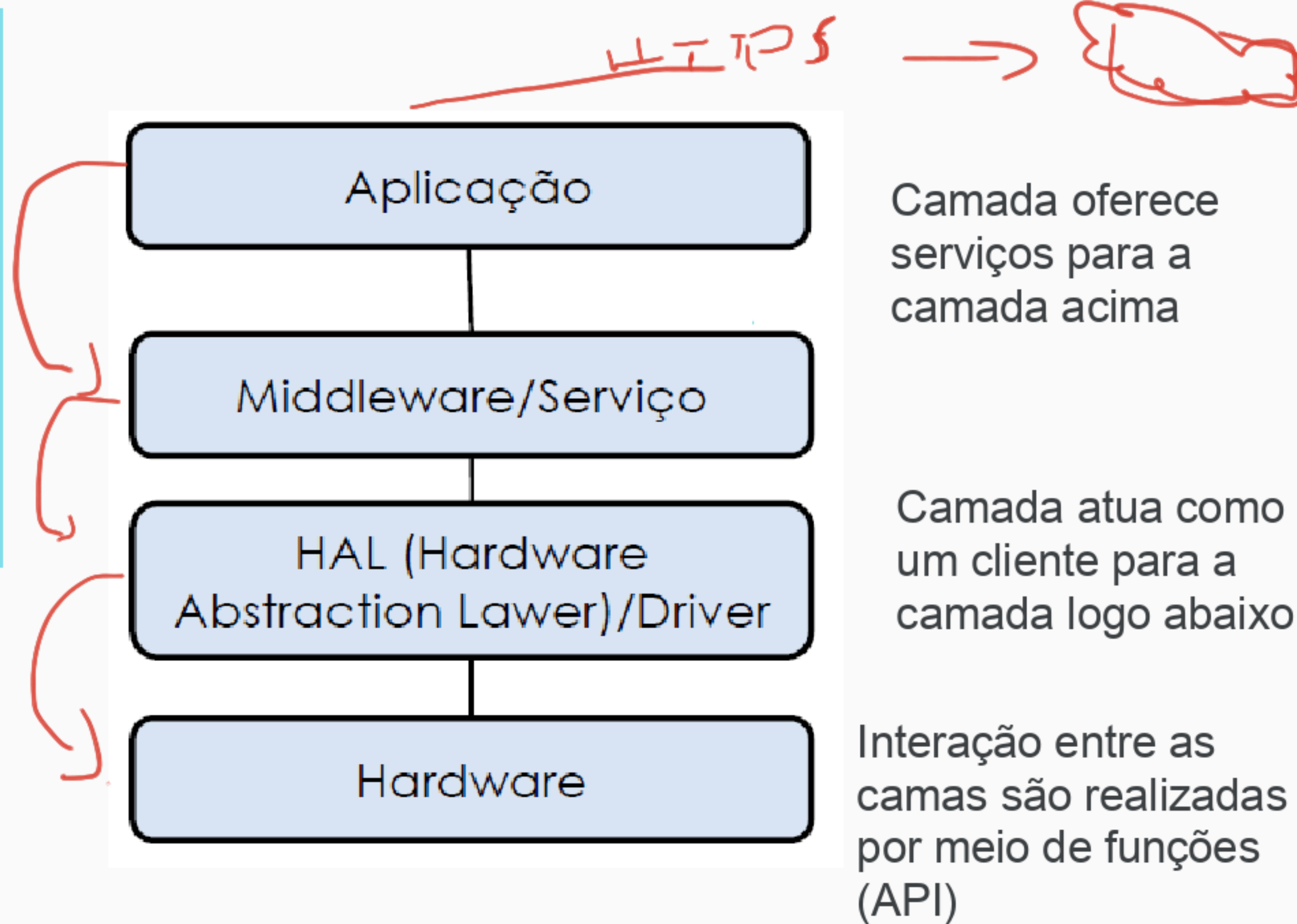


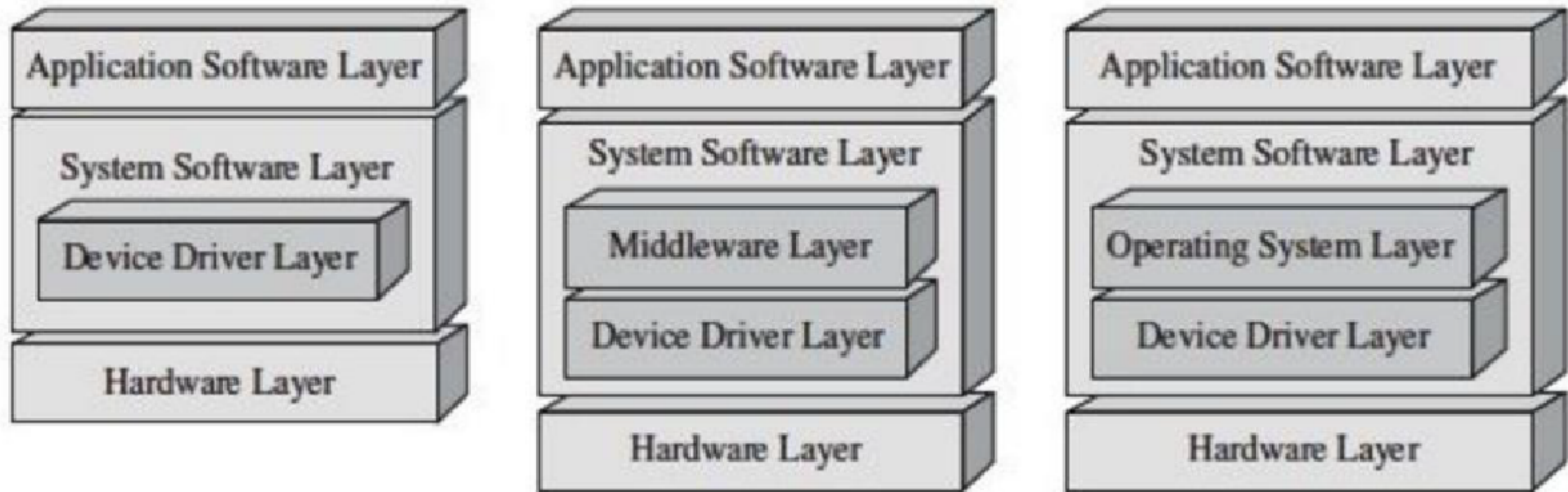
Arquitetura de Software



Sistemas embarcados = arquitetura em camadas

Refinamento da arquitetura





Aplicação: define o que o sistema embarcado faz

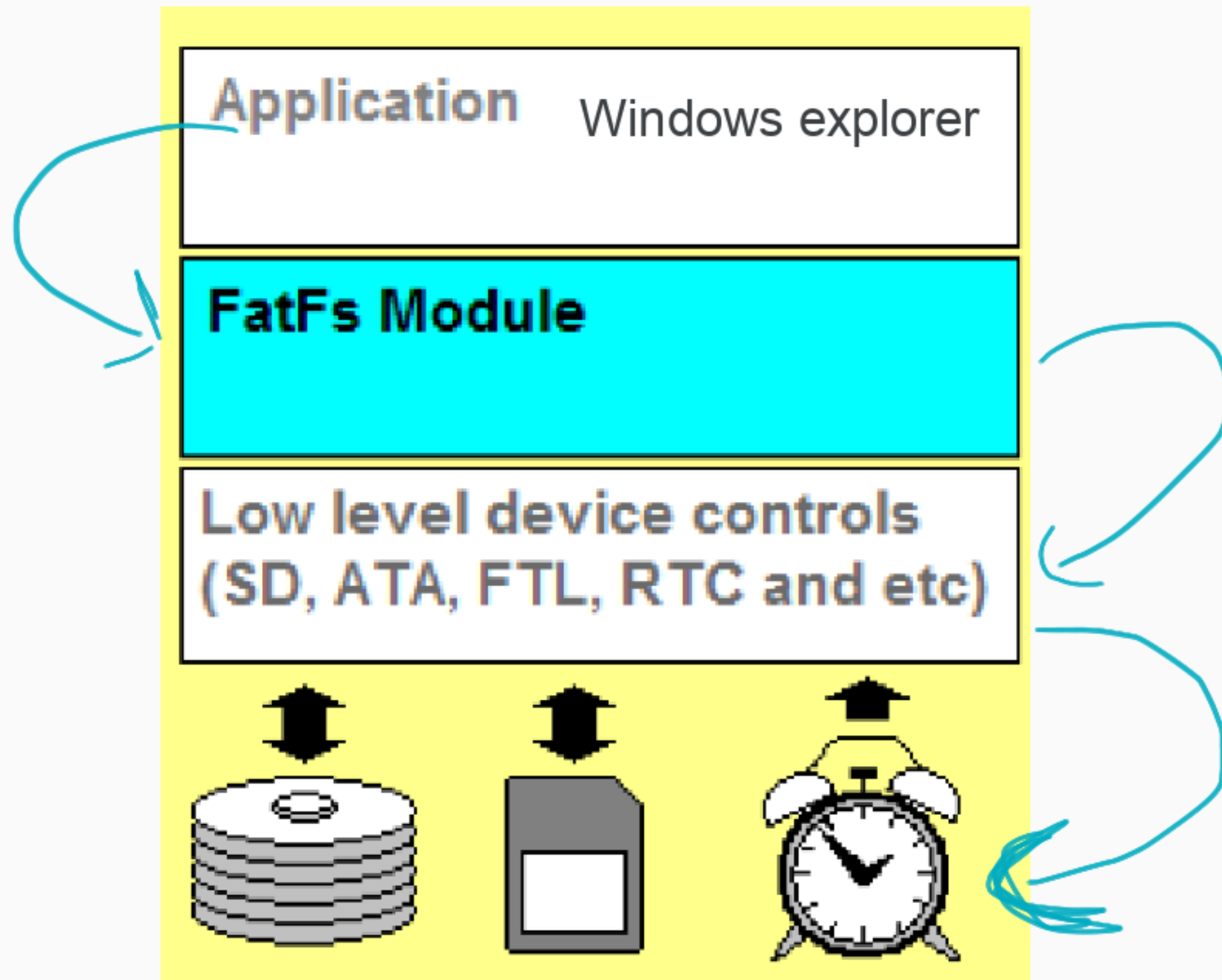
Camada de software de sistema:

Middleware: Abstração de software fora da aplicação

HAL/Driver: Interface do Software com o Hardware

RTOS: Sistema operacional em tempo real

Hardware: nossos dispositivos



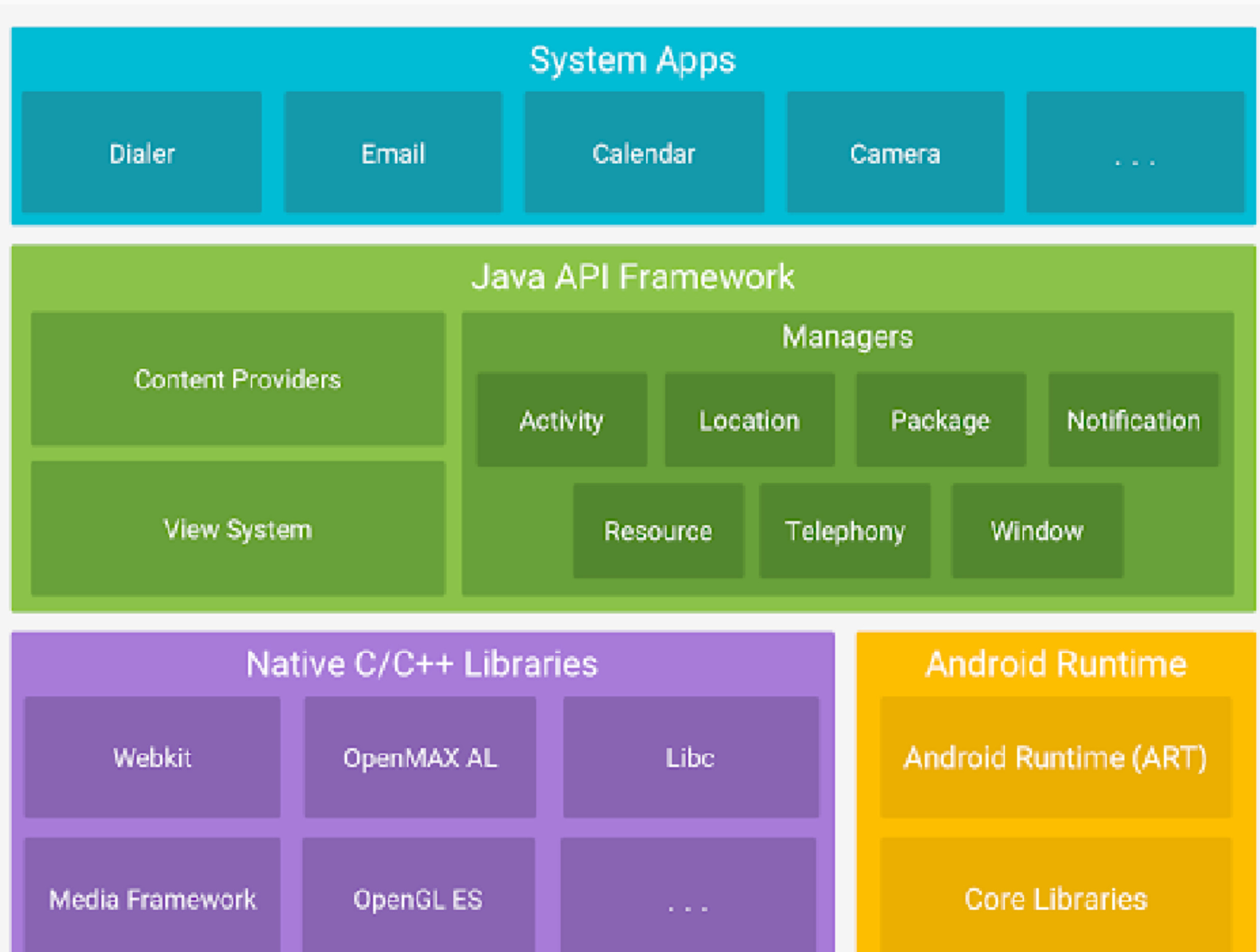
Application

FatFs API



FatFs Module

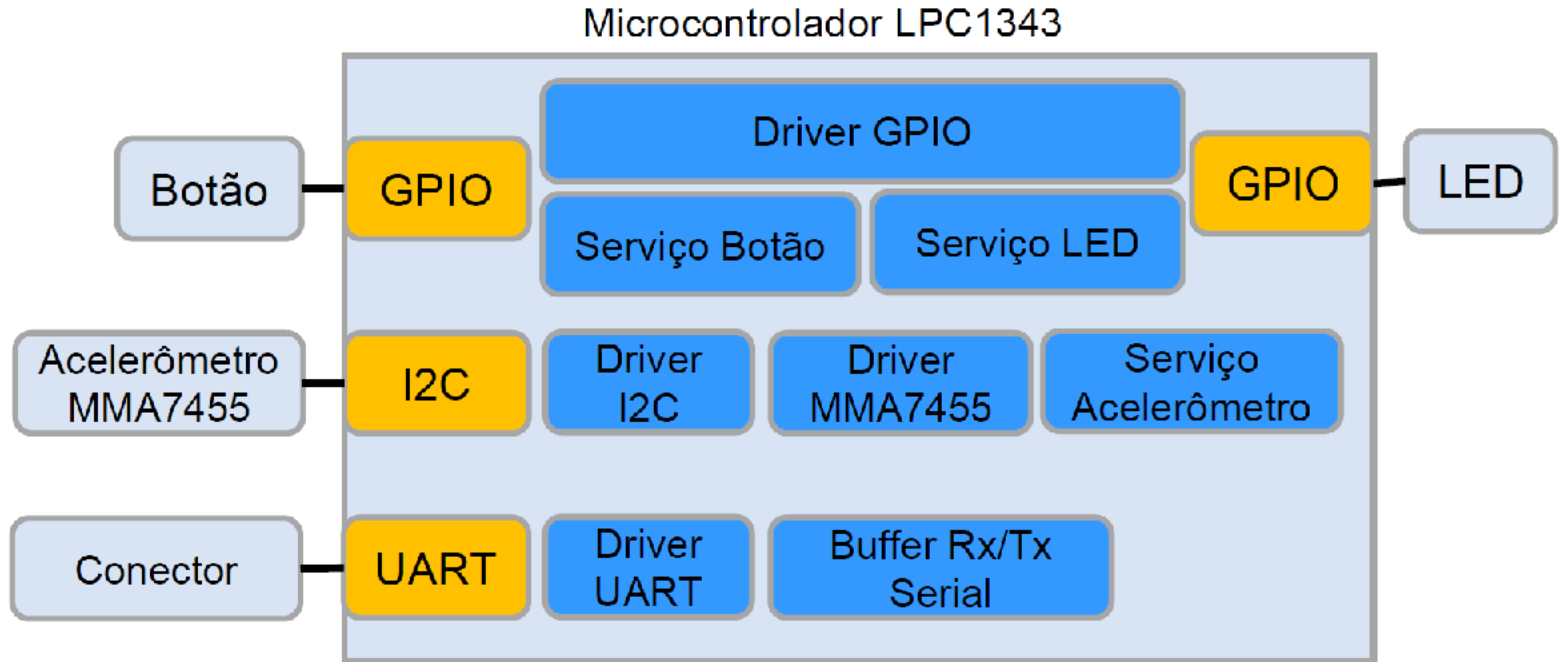
Storage device controls



ARQUITETURA DO MAC OS X

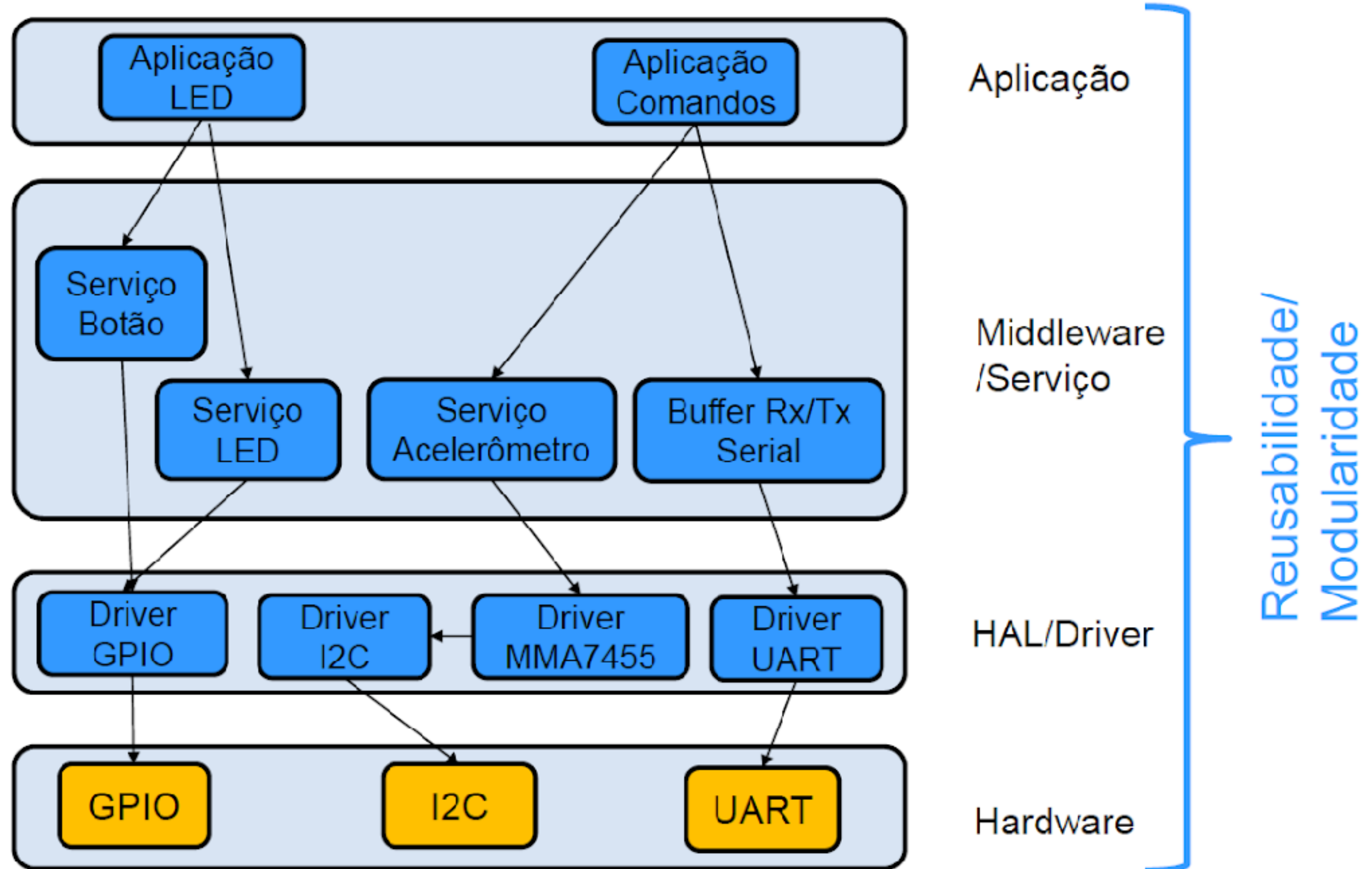


Placa base

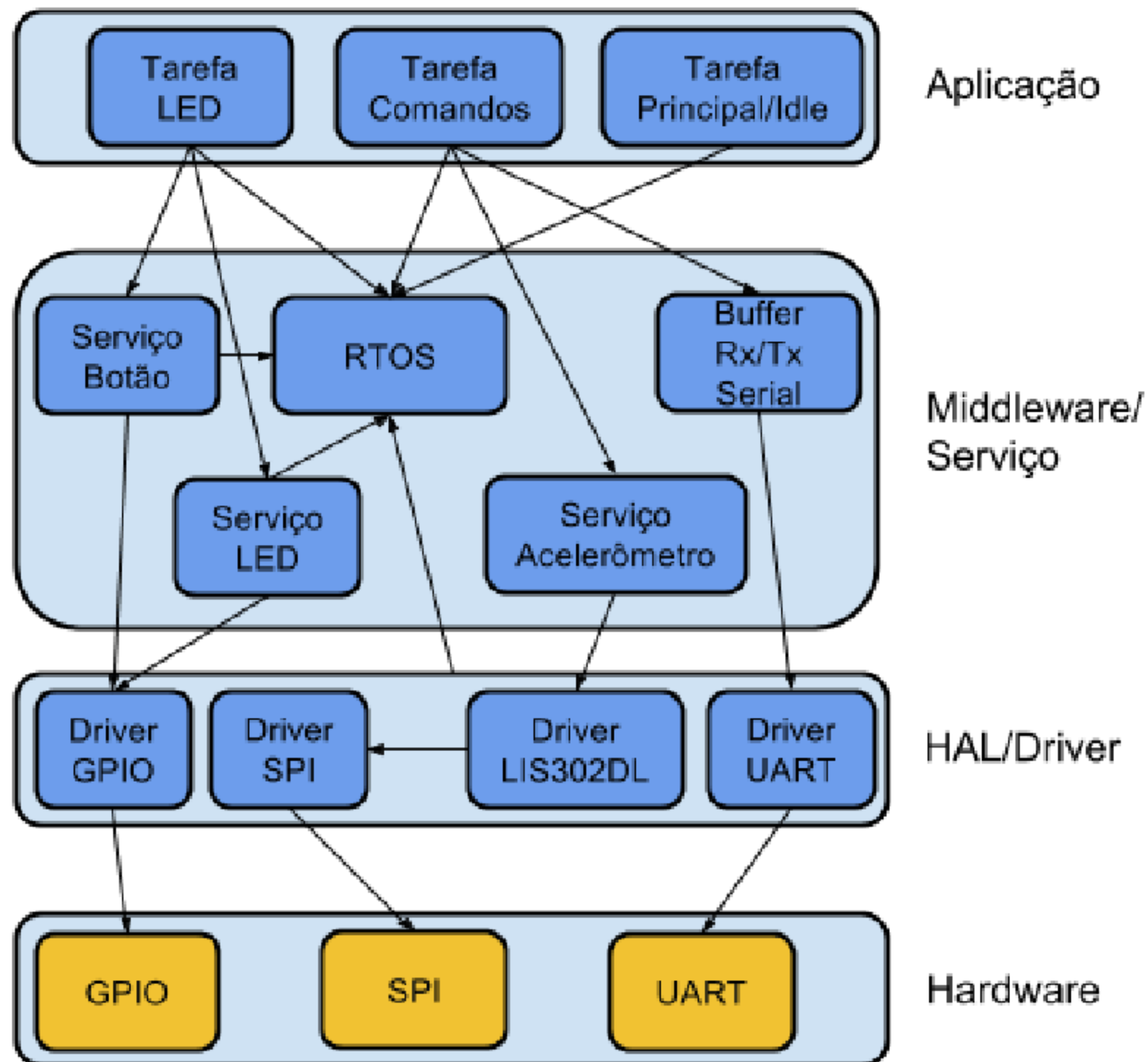


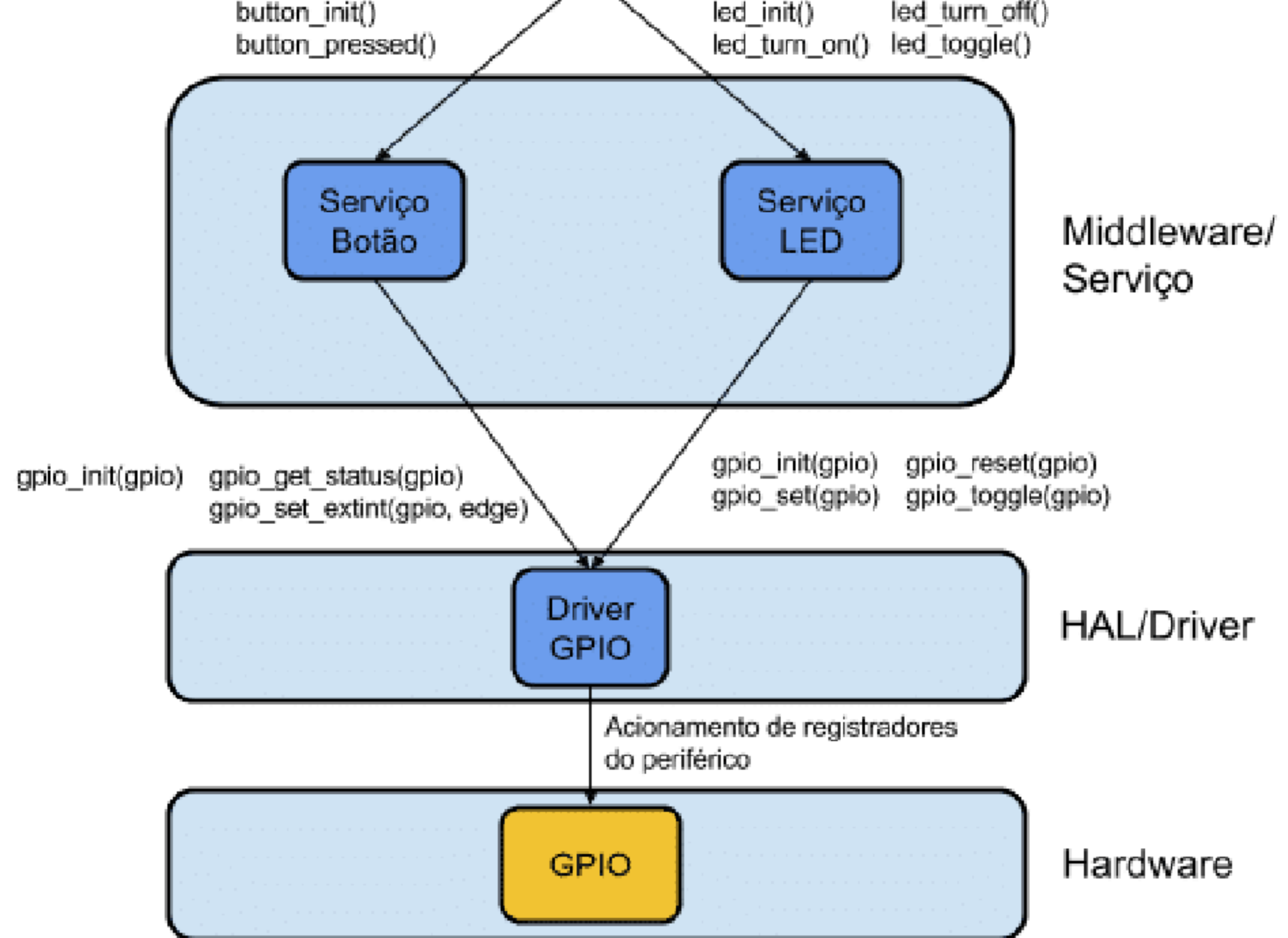
SEM RTOS

Diagrama de Camadas+Software



com RTOS







ARM

X86

X64

PowerPC

8051