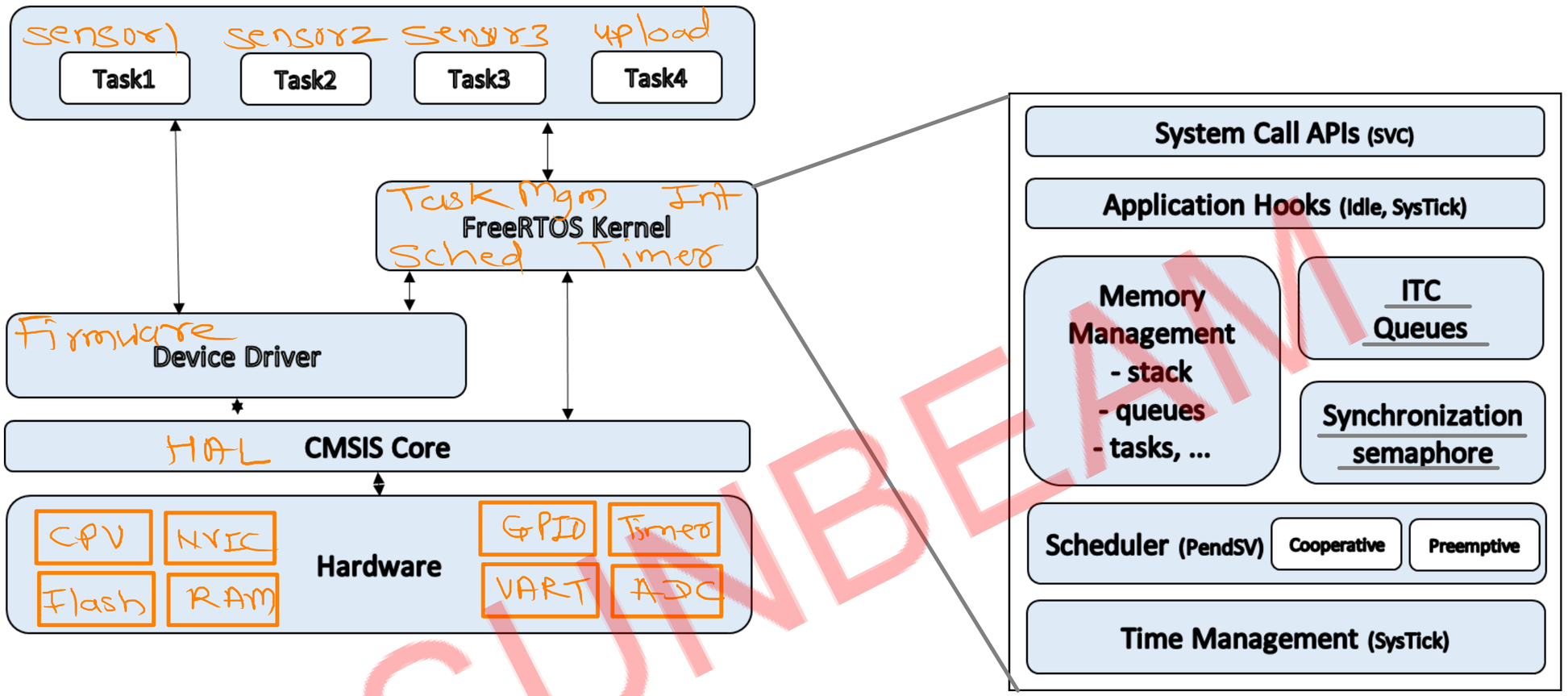
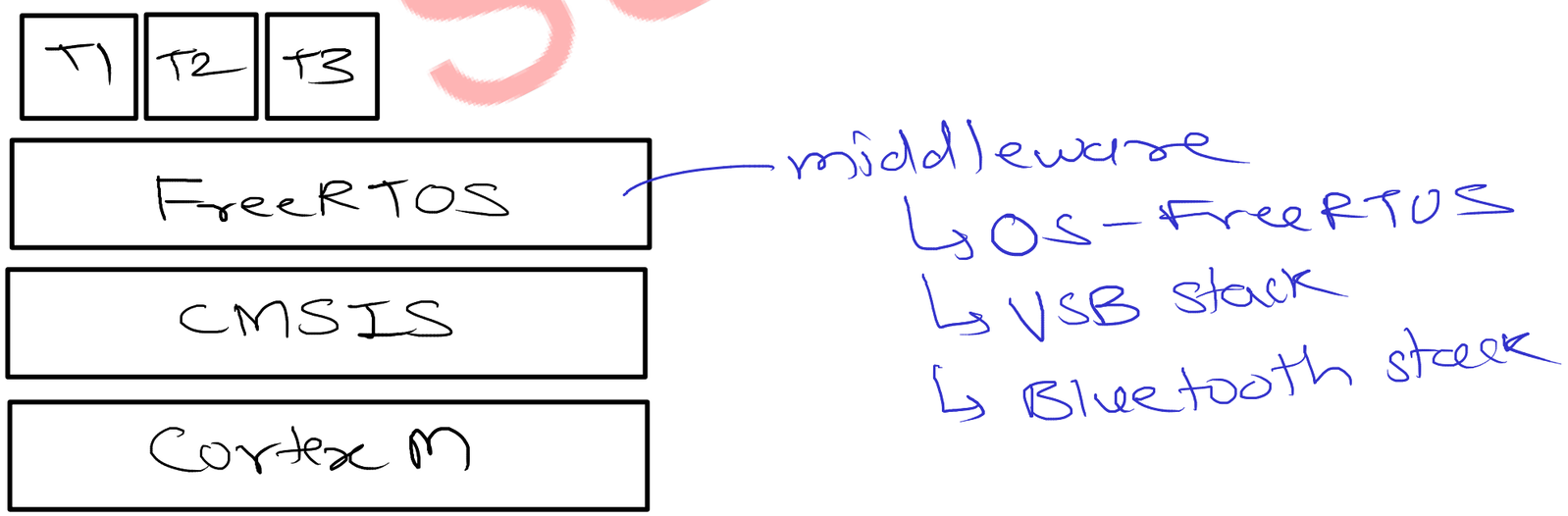
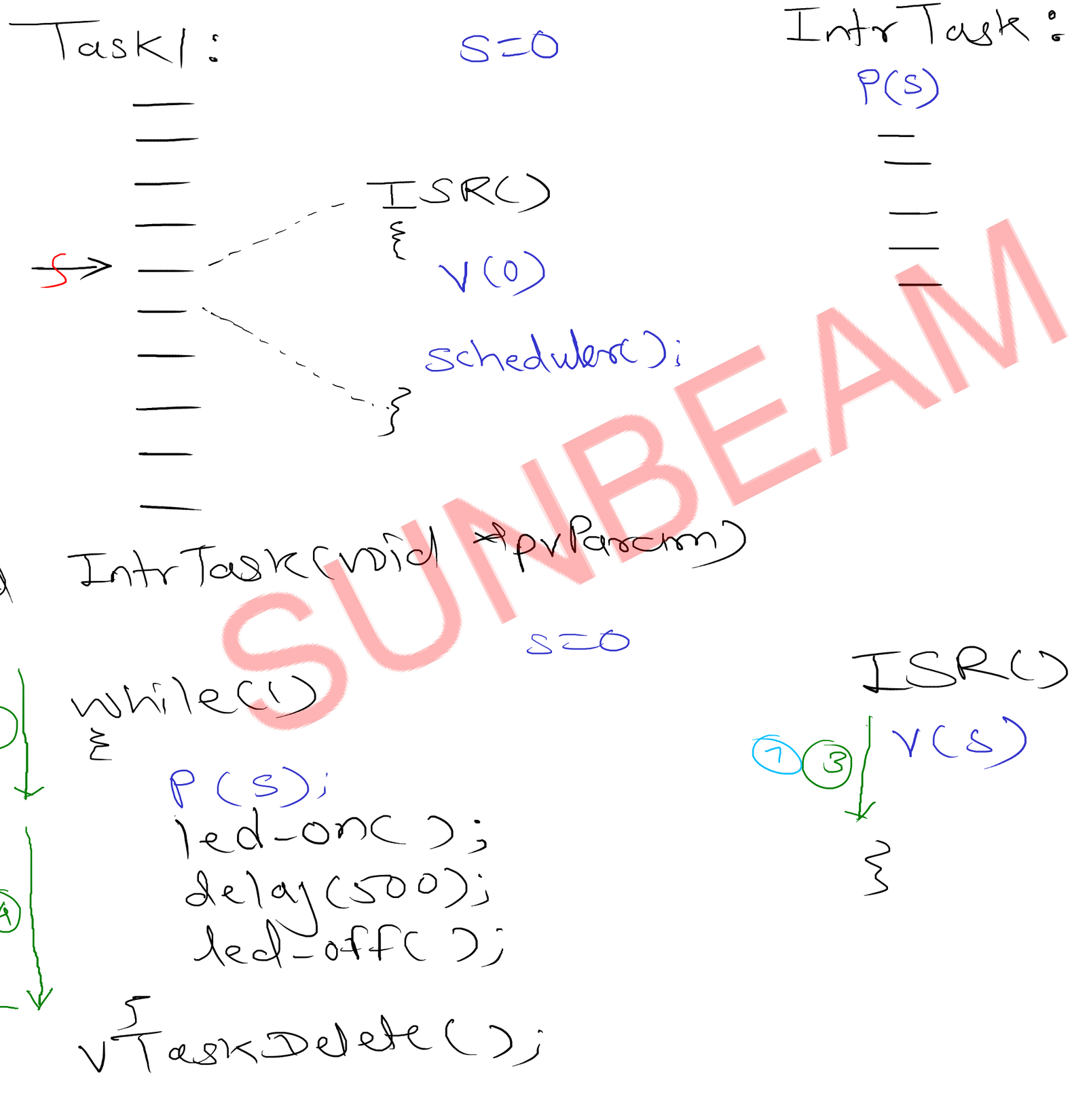
FreeRTOS Architecture





Interrupt Handling



Synchronisation

1) Critical section

- code which can be executed by only one process at a time. if multiple processes execute critical section concurrently then result will be wrong.

```
portENTER_CRITICAL()
//critical section
=
portEXIT_CRITICAL()
```

2) Semaphore

a) event/Flag

b) Binary semaphore

c) Counting semaphore