Software Block Diagram – Delta Robot Clock

Interrupts

Main (State Engine)
(SYSTICK)

Clock
(RTC)

Buttons
(GPIO)

Motion Control
(TIM2)

Display
(I2C1)

Sound
(TIM6, DAC & DMA2)

Robot
(ADC1 & DMA1)

Servo
(TIM1 & PWM)
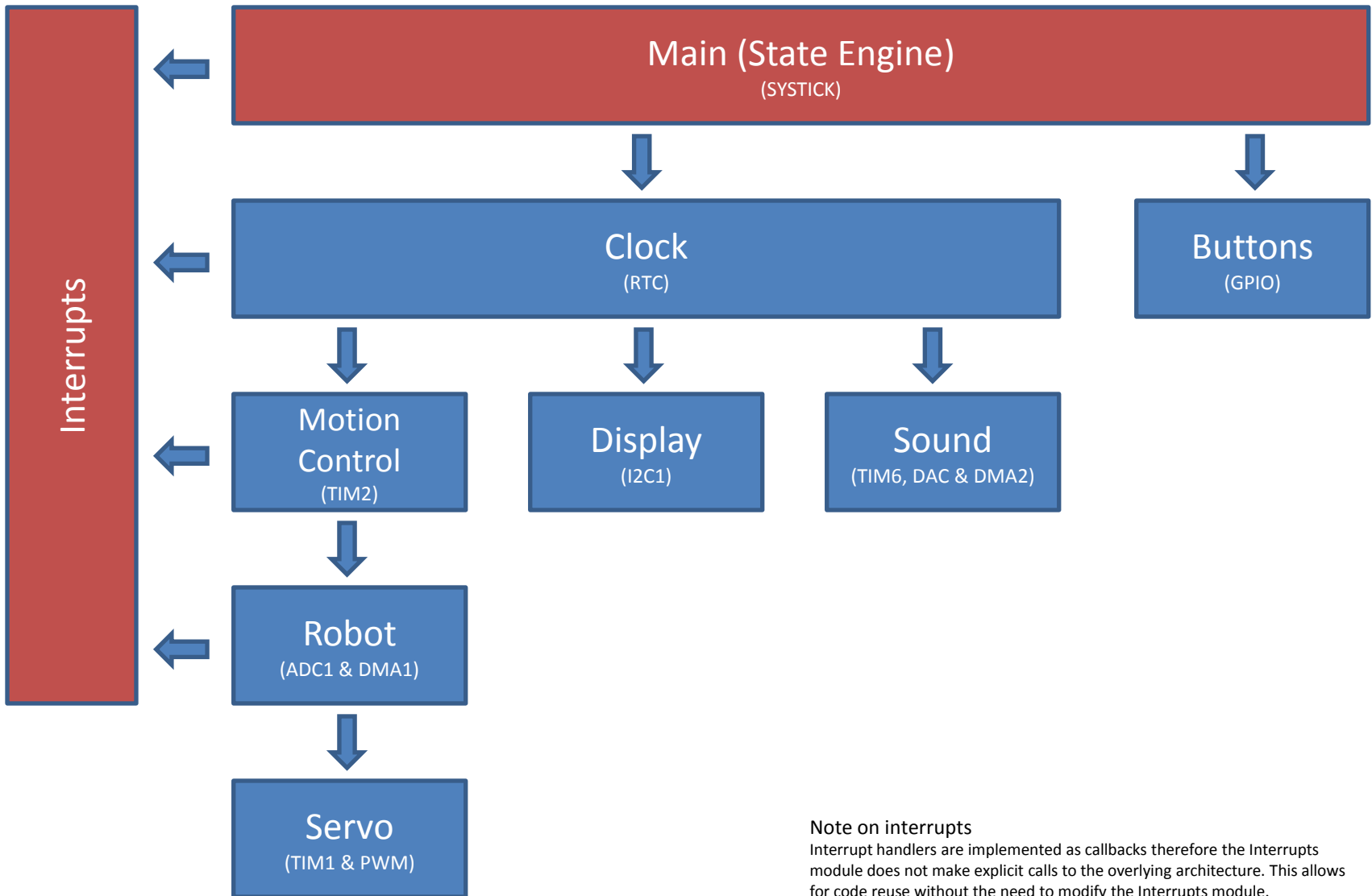
Note on interrupts
Interrupt handlers are implemented as callbacks therefore the Interrupts module does not make explicit calls to the overlying architecture. This allows for code reuse without the need to modify the Interrupts module.