<<linked list struct>>
FunctionNode

+ani: Animation*

+func_num: uint8_t

+cts: bool

+running: bool

+next: FunctionNode*

LNInterface

-functions_root: FunctionNode*

-functions_map: FunctionNode**

-buttons_root: ButtonNode*

-is_disabled: bool

-frequency: uint8_t

-target_time: long

-LnPacket: *lnMsg

-Throttle: LocoNetThrottleClass

+LNInterface()

+map()

+mapButton()

+printRunningSpeeds()

+update()

+updateFunction()

+updateOnOff()

<<linked list struct>>
ButtonNode

+pin: uint8_t

+fn: uint8_t

+next: ButtonNode*

Animation

-next: Animation*

+*runAnimation()*

+*killPWM()*

+getNext()

+setNext()

---Extends--- (left) ---Extends--- (right)

AnimationChain

-root_event: Event*

-current_event: Event*

-root_device: PWMDevice*

-appendEvent()

+AnimationChain()

+addPWM()

+addDelay()

+addPin()

/ +runAnimation()

/ +killPWM()

AnimationNode

-non_loopable_root: Branch

-loopable_root: Branch*

+AnimationNode()

+addAnimation()

+runAnimation()

/ +runAnimation()

/ +killPWM()

<<linked list struct>>
PWMDevice

+controller: PWMController

+next: PWMDevice*

<<linked list struct>>
Event

+event: RunnableTask*

+next: Event*

<<linked list struct>>
Branch

+ani: Animation*

+running: bool

+next: Branch*

RunnableTask

+*run()*

Extends

Extends

Extends

PWMController

-root_link: PWMEventLink*

-current_link: PWMEventLink*

-handler: PWMHandler*

-current_pwm: uint16_t

-seq_pos: uint16_t

+PWMController()

+addEvent()

+getHandler()

+kill()

/ +run()

Delay

-target_time: unsigned long

-delay: unsigned long

+Delay()

/ +run()

Pin

-pin: uint8_t

-value: uint8_t

+Pin()

/ +run()

<<linked list struct>>
PWMEventLink

+seq: uint16_t*

+len: uint16_t

+next: PWMEventLink

PWMHandler

-min_val: uint16_t

-max_val: uint16_t

-offset: uint16_t

-pin: uint8_t

-driver: AdafruitPWMServoDriver*

#PWMHandler()

+setSafePWM()

+setPWM()

+setOn()

+setOff()

+driverOn()

+driverOff()

+getMin()

+getMax()

+getOffset()

Extends

Extends

Extends

ServoHandler

+ServoHandler()

RotServoHandler

+RotServoHandler()

LedHandler

+LedHandler()