SystemManager

- systemState : enum

+ readSystemState(out state: enum)
- setSystemState(in state: enum)

+ analogAcquisitionManager

analogAcquisitionManager

+ signalList : signal [*]

+ readSignals()
+ initADC()   C0
+ filterSignals()

1

+ signal   *

signal

+ type : undefined
+ order : integer
+ filterParamA : double [1..*]
+ filterParamB : double [1..*]
- filteredValue : double
+ cutoffFreq : integer
+ lastObtainedValue : double
+ adcChannel : integer

+ signal(in cutoffFreq: integer)   C0
- setValue(in value: double)
+ readValue(in value: double)

+ digitalInputManager

digitalInputManager

+ digitalInputList : digitalInput [*]

+ initInputs()
+ enableInt()
+ readDigitalInputs()

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+ switch   *

digitalInput

+ pin : integer
- value : boolean

+ readValue(out value: boolean)
- setValue(in value: boolean)

+ referenceHandler

referenceHandler

+ referenceSlope : integer
+ maxReference : integer
- reference : integer

+ isPotentiometerSelected(out state: boolean)
+ isUartSelected()(out state: boolean)
+ setSlope(in value: integer)
+ readReference(out value: string)
+ calculateReference()

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openLoopController

+ calculateDutyCycle()
+ setDutyCycles()

<<use>>

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dutyCycle

+ dutyCycle1 : double
+ dutyCycle2 : double
+ dutyCycle3 : double

+ setDutyCycle1(in value: double)
+ setDutyCycle2(in value: double)
+ setDutyCycle3(in value: double)
+ readDutyCycle1(out value: double)
+ readDutyCycle2(out value: double)
+ readDutyCycle3(out value: double)

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communicationManager

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abc2dqConverter

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dq2abcConverter

SVModulator