Name: Architecture_Overview
Package: Measurement_System_Embedded_Software
Version: 1.0
Author: Thomas Batt

«Software_Layer»
System_Management
- + Measurement_Application_main
- + SystemManager

«Software_Layer»
Measurement_Application
- + ApplicationManager
- + Measurement_Controller
- + Measurement

«Software_Subsystem»
Measurement
- + Measurement
- + VoltageMeasurement
- + CurrentMeasurement
- + ResistanceMeasurement

«Software_Subsystem»
Measurement_Controller
- + MeasurementController
- + MeasurementController_Events

«Software_Library»
Library
- + State_Machine

«Software_Library»
State_Machine
- + State
- + StateMachine
- + StateMachineGlobals

«Software_Layer»
Hardware_Device_Abstraction
- + DeviceAbstractionManager
- + AnalogMeasurement
- + ComSerial
- + UserIndication
- + UserInput
- + UserOutput

«Software_Subsystem»
AnalogMeasurement
- + AnalogMeasurement
- + I_AnalogMeasurement
- + I_AnalogMeasurement_Config
- + ICB_AnalogMeasurement

«Software_Subsystem»
ComSerial
- + ComSerial
- + I_ComSerial
- + I_ComSerial_Config
- + ICB_ComSerial

«Software_Subsystem»
UserIndication
- + UserIndication
- + I_UserIndication
- + I_UserIndication_Config

«Software_Subsystem»
UserInput
- + UserInput
- + I_UserInput
- + I_UserInput_Config

«Software_Subsystem»
UserOutput
- + UserOutput
- + I_UserOutput
- + I_UserOutput_Config

«Software_Layer»
Hardware_Device_Driver
- + DriverManager
- + Microcontroller_Driver
- + Board_Driver

«Software_Subsystem»
Microcontroller_Driver
- + I_GPIO_Types
- + Typedefs
- + I_NVIC_Dispatcher_Types
- + I_GPIO
- + I_GPIO_Config
- + I_ADC
- + I_ADC_Config
- + I_USART
- + I_USART_Config
- + I_NVIC
- + I_NVIC_Config
- + I_NVIC_Dispatcher_Config
- + ICB_ServiceInterrupt
- + STM32F103

«Software_Subsystem»
STM32F103
- + RegisterMap_STM32F103
- + GPIO_STM32F103
- + ADC_STM32F103
- + USART_STM32F103
- + NVIC_STM32F103
- + NVIC_Dispatcher_STM32F103

«Software_Subsystem»
Board_Driver
- + I_Button_Types
- + I_Button
- + I_Button_Config
- + I_LED
- + I_LED_Config
- + I_LCD_Text
- + I_LCD_Text_Config
- + MCBSTM32

«Software_Subsystem»
MCBSTM32
- + Button_MCBSTM32
- + LED_MCBSTM32
- + LCD_Text_MCBSTM32