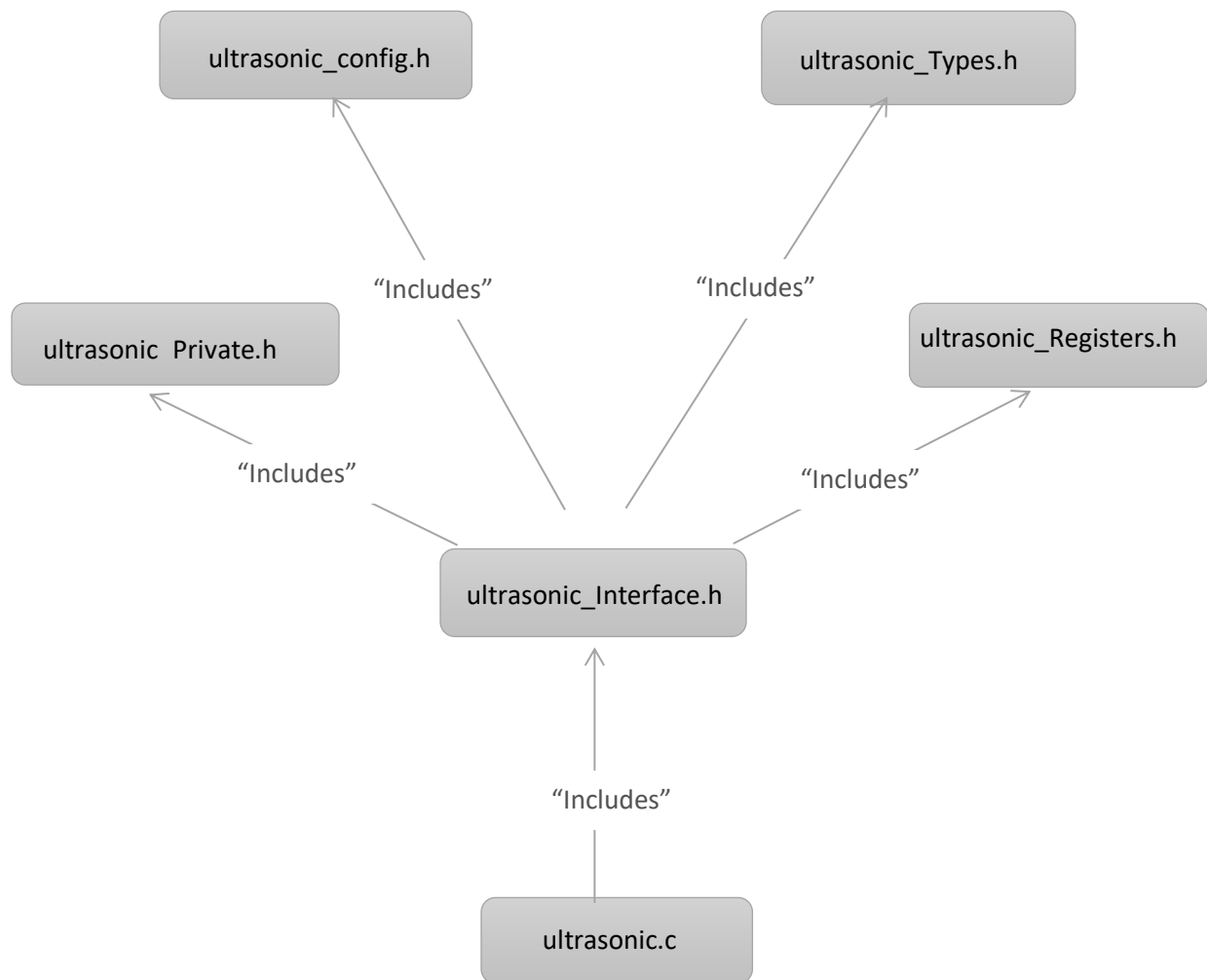


DD document for ultrasonic sensor driver

Team x



Function definitions:

1- [DD_ULTRASONIC_112]

Service name:	HAL_ULTRASONIC_Einit
Syntax:	E_ULTRASONIC_ERROR HAL_ULTRASONIC_EINIT(void)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	--
Return type:	Std_type(error)
Description:	It initiates the trigger pin for the ultrasonic sensor
Covered requirements:	it can detect if there's someone inside the house

2- [DD_ULTRASONIC_113]

Service name:	HAL_ULTRASONIC_EtrigPULSE
Syntax:	E_ULTRASONIC_ERROR HAL_ULTRASONIC_EtrigPULSE(void)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	--
Return type:	stdType(error)
Description:	It generates the triggered pulse
Covered requirements:	it can detect if there's someone inside the house

3. [DD_ULTRASONIC_114]

Service name:	HAL_ULTRASONIC_EdistanceESTIMATION
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Syntax:	E_ULTRASONIC_ERROR HAL_ULTRASONIC_EdistanceESTIMATION(unsigned short* distance)
Sync/Async:	synchronous
Re-entrancy:	Re-Entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	Distance
Return type:	Std_type(error)
Description:	It reads the distance from the ultrasonic sensor
Covered requirements:	