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/*****

Header file for Navigation on the E128

*****/
#ifndef NavigationFSM_H
#define NavigationFSM_H

//#include headers
#include "ES_Configure.h"
#include "ES_Framework.h"
#include "ES_Types.h"
#include <stdio.h>
#include <stdlib.h>
#include <mc9s12e128.h>
#include <S12e128bits.h>
#include <Bin_Const.h>
#include <termio.h>

//typedefs for the states
//State definitions for use with the query function
typedef enum {PreparingToMove, AligningX, MovingX, AligningY, MovingY, TurningToTarget,
TightTurningToTarget } NavigationState_t ;

//Declare Public Function Prototypes
boolean InitNavigationFSM ( uint8_t Priority );
boolean PostNavigationFSM( ES_Event ThisEvent );
ES_Event RunNavigationFSM( ES_Event ThisEvent );
unsigned char QueryDesiredTheta( void );
void SetThetaManually(unsigned char);

//#defines

#endif /* FAC_FSM_H */

```