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

//#include for hardware initialization services
#include "E128_PWM.h"
#include "E128_SPI.h"
#include "E128_Servo.h"
#include "AlignPPService.h"
#include "ResupplyService.h"

void main( void)
{

    ES_Return_t ErrorType;

    //set wireless communication
    SCI0BD = 39;

    // When doing testing, it is usefull to annouce just which program
    // is running.
    puts("running 218B CapThatShip\r\n");

    // Your hardware initialization function calls go here
    InitSPIHardware();           //initialize SPI hardware
    InitServoHardware();         //initialize servo hardware for Flywheel ball release
    InitPWMHardware();           //initialize PWM for DriveTrain hardware

    InitIREmitHardware(); //initialize Timer capabilities IR Emitter for ball refill
    InitControlTimerHardware(); //initialize Timer0 for P-Control

    // now initialize the Events and Services Framework and start it running
    ErrorType = ES_Initialize(ES_Timer_RATE_1MS);
    if ( ErrorType == Success )
    {

        ErrorType = ES_Run();

    }

    //if we got to here, there was an error
    switch (ErrorType)
    {
        case FailedPointer:
            puts("Failed on NULL pointer");
            break;
        case FailedInit:
            puts("Failed Initialization");
            break;
        default:
            puts("Other Failure");
            break;
    }

    for (;;)
    ;
}

```

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};
```

```
/*----- Footnotes -----*/  
/*----- End of file -----*/
```