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A. Task 1: Obstacle avoidance and space exploration by the robot.

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

#include "ch.h"
#include "hal.h"
#include "memory_protection.h"
#include <main.h>

#include "leds.h"
#include "spi_comm.h"
#include "sensors/proximity.h"
#include "motors.h"
#include "sensors/VL53L0X/VL53L0X.h"

messagebus_t bus;
MUTEX_DECL(bus_lock);
CONDVAR_DECL(bus_condvar);
```