

```
1 .include "m2560def.inc"
2
3 .def IN_COMMAND = r25
4
5 .org 0
6 rjmp initial_config
7
8 .org $0032 //USART0 Rx Complete
9 jmp USART0_RXC
10
11 .org $0064
12 jmp TIM5_OVF //Timer5 Overflow Handler
13
14
15 .org INT_VECTORS_SIZE
16
17 .include "../Configs/motorsConfiguration.asm"
18 .include "../Configs/usartConfiguration.asm"
19 .include "../Utility/utility.asm"
20 .include "../communicationController.asm"
21 .include "../fireController.asm"
22 .include "../Utility/commandParser.asm"
23 .include "../manualMode.asm"
24 .include "../automaticMode.asm"
25
26 initial_config:
27
28 // Configuro la comunicacion serial
29 call usart_init
30
31 // Configuro motores
32 call motors_init
33 call set_topspin
34
35 ldi r16,(1<<SE) // Habilito el modo sleep, tipo: IDLE
36 out SMCR, r16
37
38 stand_by:
39 //SETEO ESTADO STAND BY
40 //////////////////////////////////////////////////
41 call stop_mixer
42
43 ldi PARAMETER, '0'
44 call set_ball_speed
45
46 ldi PARAMETER, '3' // 90 grados
47 call set_fire_angle
48
49 //////////////////////////////////////////////////
50 //////////////////////////////////////////////////
51
52 await_command:
53
54
55 call usart_recieve_command
56 call parse_execute_command
57
58 jmp await_command
```