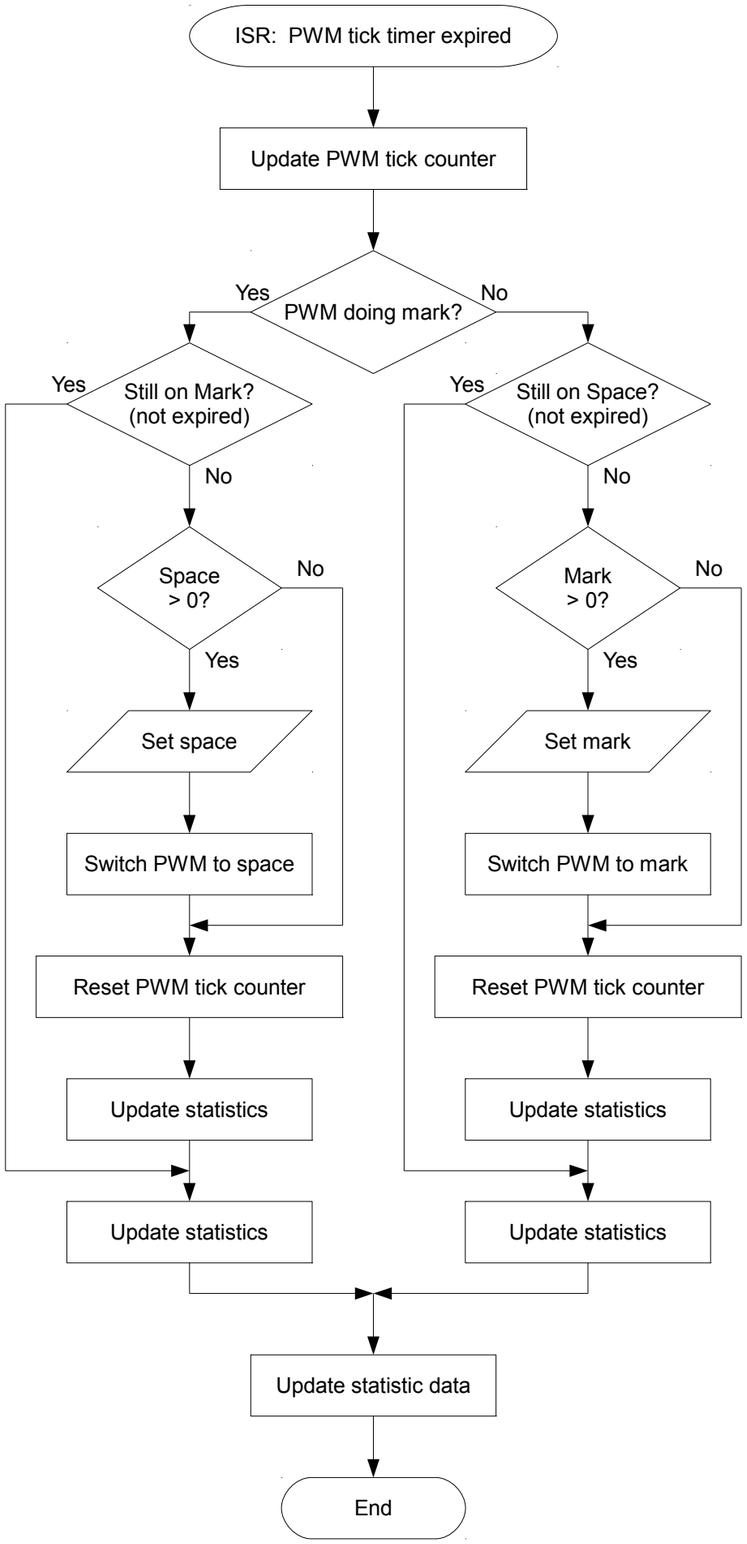
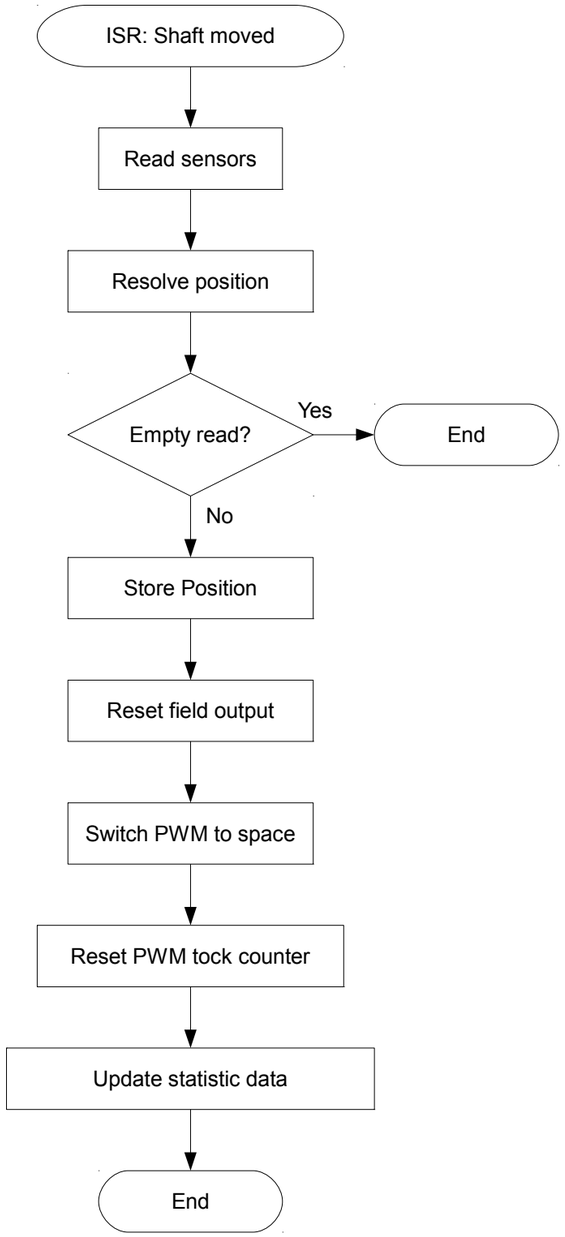
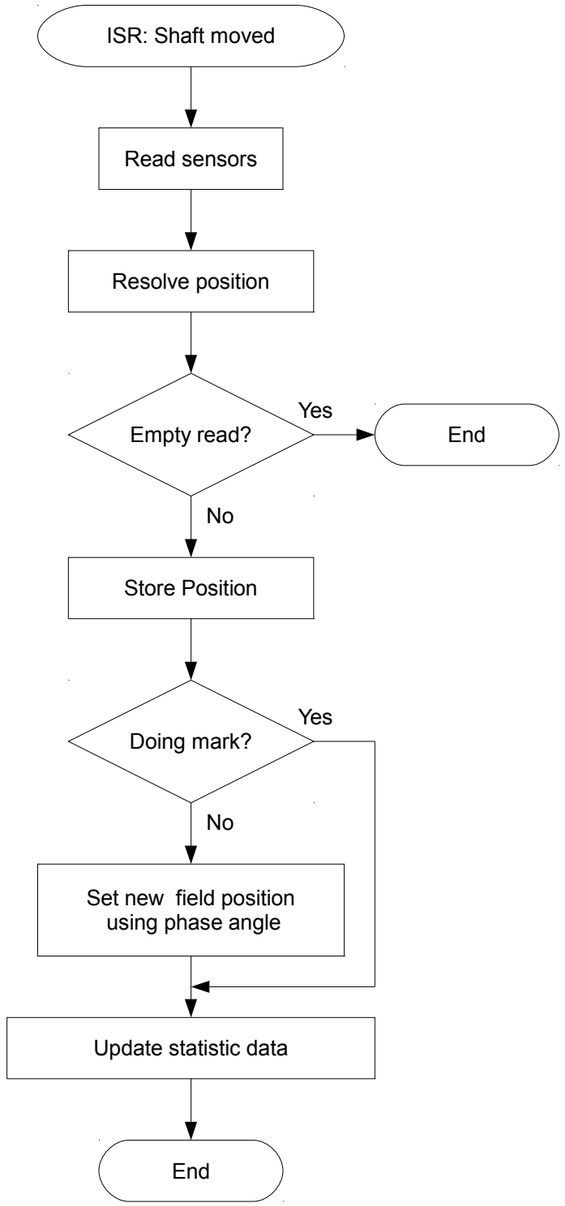

ISR: PWM tick timer expired
Update PWM tick counter
PWM doing mark?
Yes
No
Still on Mark?
(not expired)
Yes
No
Space
> 0?
No
Yes
Set space
Switch PWM to space
Reset PWM tick counter
Update statistics
Update statistics
Still on Space?
(not expired)
Yes
No
Mark
> 0?
No
Yes
Set mark
Switch PWM to mark
Reset PWM tick counter
Update statistics
Update statistics
Update statistic data
End


ISR: Shaft moved
Read sensors
Resolve position
Empty read?
Yes
End
No
Store Position
Reset field output
Switch PWM to space
Reset PWM tock counter
Update statistic data
End


ISR: Shaft moved
Read sensors
Resolve position
Empty read?
Yes
End
No
Store Position
Doing mark?
Yes
No
Set new field position
using phase angle
Update statistic data
End