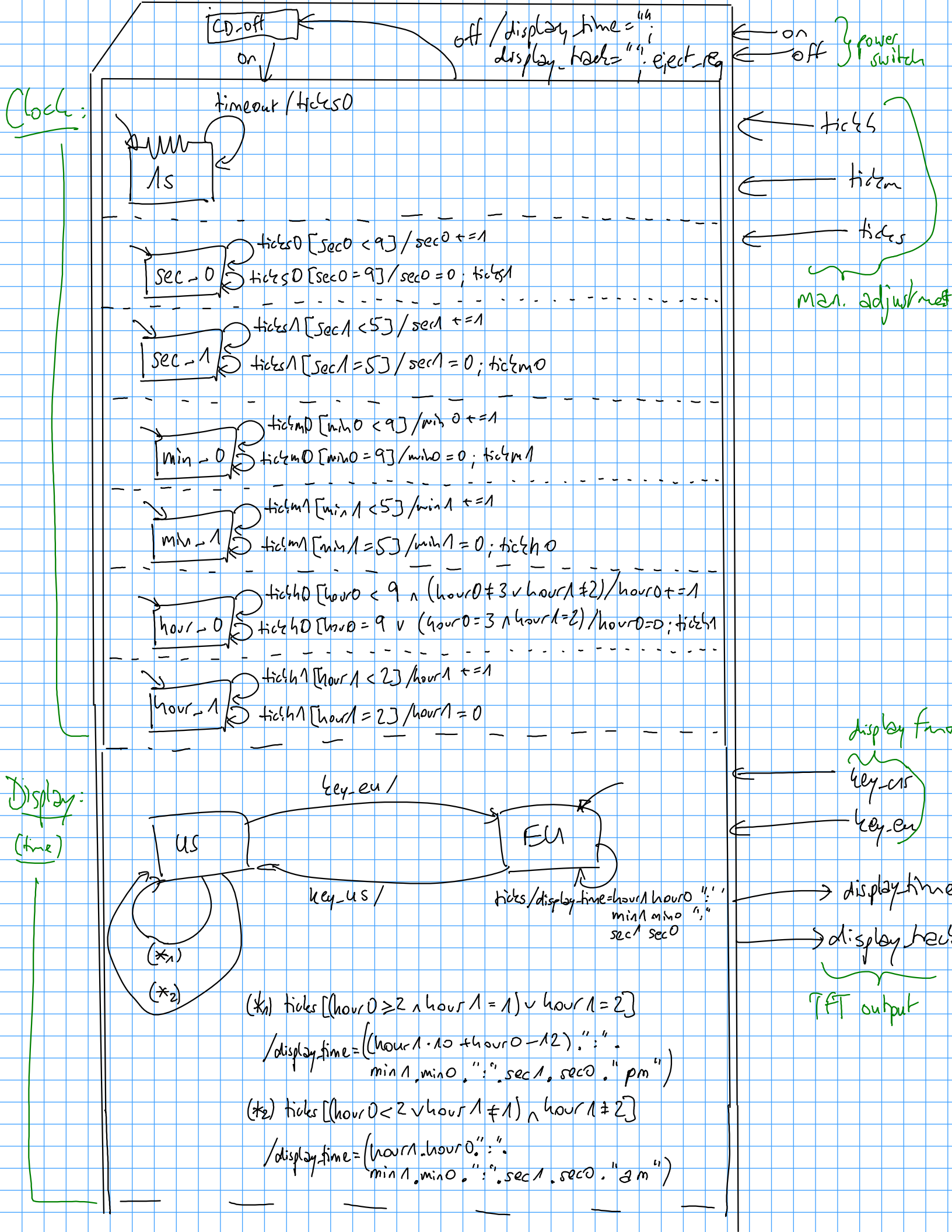
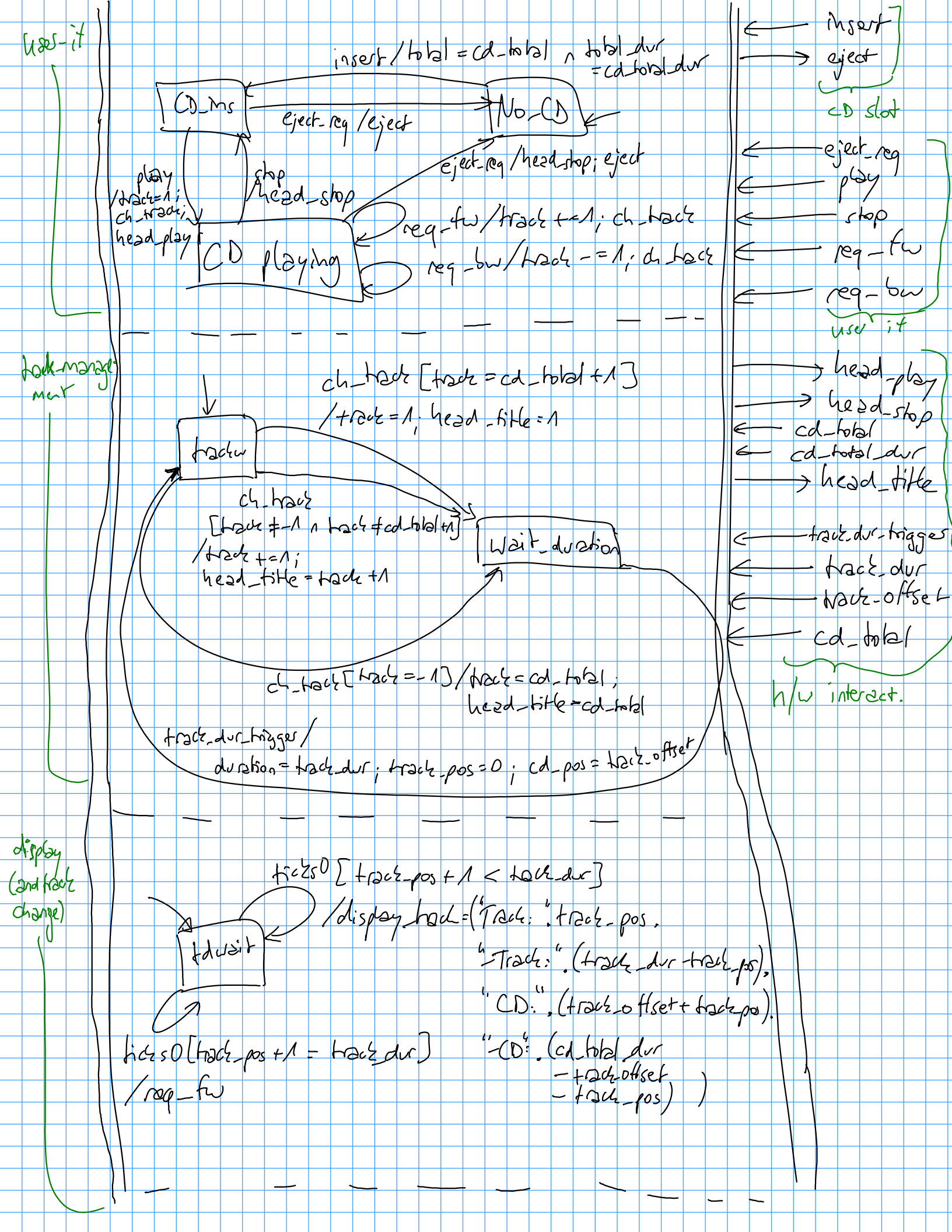

CD-off
on
off / display_time = "";
display_track = ""; eject_reg
on
off
power switch
Clock:
timeout / ticks0
1s
ticks
tickm
tickh
man. adjustment
sec_0
ticks0 [sec0 < 9] / sec0 += 1
ticks0 [sec0 = 9] / sec0 = 0; ticks1
sec_1
ticks1 [sec1 < 5] / sec1 += 1
ticks1 [sec1 = 5] / sec1 = 0; tickm0
min_0
tickm0 [min0 < 9] / min0 += 1
tickm0 [min0 = 9] / min0 = 0; tickm1
min_1
tickm1 [min1 < 5] / min1 += 1
tickm1 [min1 = 5] / min1 = 0; tickh0
hour_0
tickh0 [hour0 < 9 ∧ (hour0 ≠ 3 ∨ hour1 ≠ 2)] / hour0 += 1
tickh0 [hour0 = 9 ∨ (hour0 = 3 ∧ hour1 = 2)] / hour0 = 0; tickh1
hour_1
tickh1 [hour1 < 2] / hour1 += 1
tickh1 [hour1 = 2] / hour1 = 0
Display:
(time)
display func
key_us
key_eu
US
EU
key_eu /
key_us /
ticks / display_time = hour1 hour0 ":" min1 min0 ":" sec1 sec0
display_time
display_track
TFT output
(*1)
(*2)
(*1) ticks [(hour0 ≥ 2 ∧ hour1 = 1) ∨ hour1 = 2]
/ display_time = (hour1 · 10 + hour0 − 12) "." min1 min0 "." sec1 sec0 "pm")
(*2) ticks [(hour0 < 2 ∨ hour1 ≠ 1) ∧ hour1 ≠ 2]
/ display_time = (hour1 hour0 "." min1 min0 "." sec1 sec0 "am")


user_it
insert / total = cd_total ∧ total_dur = cd_total_dur
CD_ins
eject_req / eject
No_CD
eject_req / head_stop; eject
play / track=1; ch_track; head_play
stop / head_stop
CD playing
req_fw / track += 1; ch_track
req_bw / track -= 1; ch_track
insert
eject
CD slot
eject_req
play
stop
req_fw
req_bw
user_it
track_management
ch_track [track = cd_total + 1] / track = 1; head_title = 1
track
ch_track [track ≠ -1 ∧ track ≠ cd_total + 1] / track += 1; head_title = track + 1
wait_duration
ch_track [track = -1] / track = cd_total; head_title = cd_total
track_dur_trigger / duration = track_dur; track_pos = 0; cd_pos = track_offset
head_play
head_stop
cd_total
cd_total_dur
head_title
track_dur_trigger
track_dur
track_offset
cd_total
h/w interact.
display (and track change)
ticks() [track_pos + 1 < track_dur] / display_track = ("Track: ".track_pos, "-Track: ".(track_dur - track_pos), "CD: ".(track_offset + track_pos), "-CD: ".(cd_total_dur - track_offset - track_pos))
tdwait
ticks() [track_pos + 1 = track_dur] / req_fw

own feature: display LED color