Regulerings MCU

Sensor input

DataInt
GYRO_DR_INT

External interrupt from gyro to
ensure constant data collection rate

sensorI2C

I2C

Master

I2C master for getting data

Debug

debugOut

UART

tx

tx_interrupt

reset

0   115200 bps

Tx_1

activityDebug

Motor styring

PWM

PWM

tc
pwm

clock   ph1
reset   ph2

8-bit (UDB)

Clock_1   4 kHz

0

PWM_B
PWM_A

Loop timing

loopTimer

Timer

tc
interrupt

clock
reset

8-bit (UDB)

t_clk   40 kHz

0
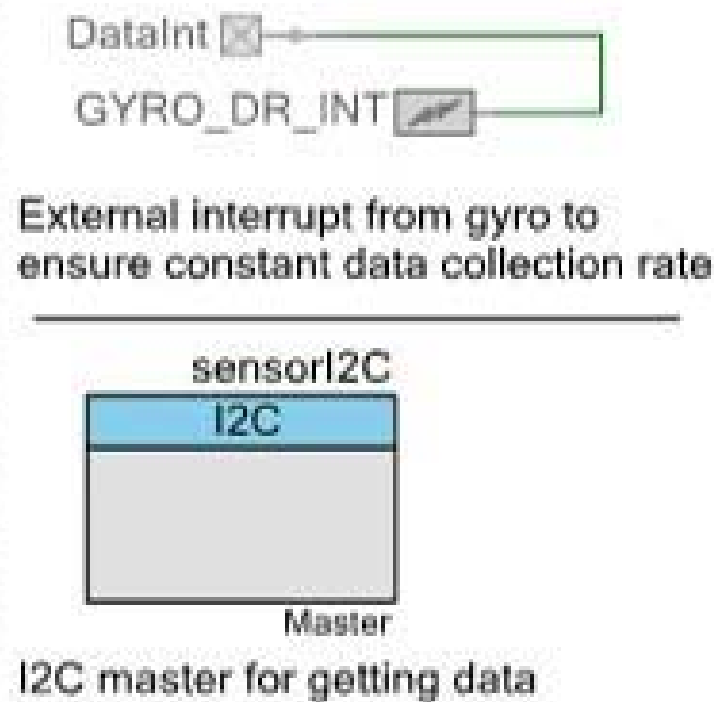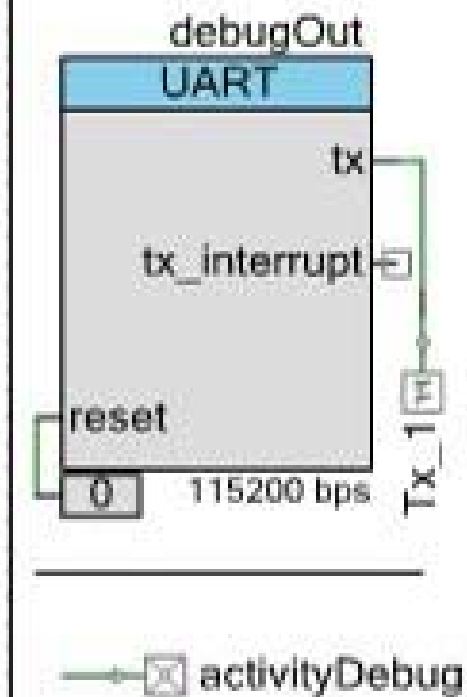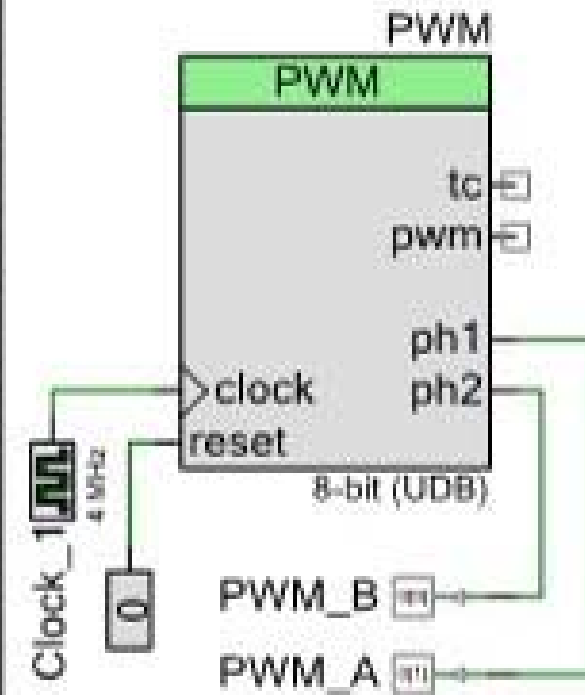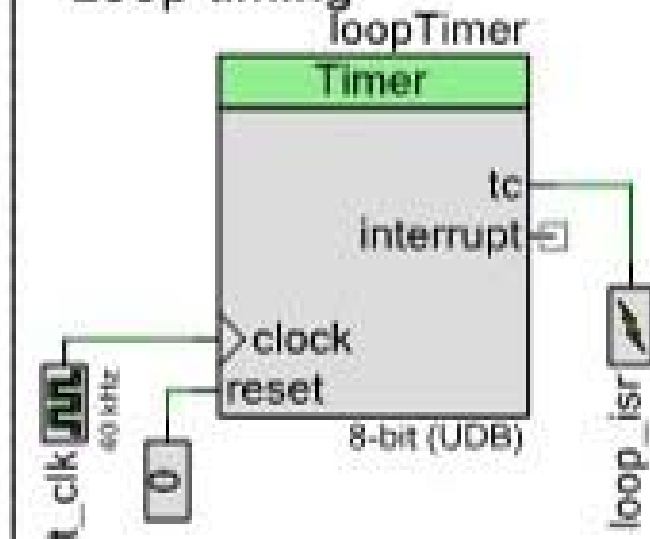
loop_isr

Shutdown switch

ShutdownSwich

Controller I2C

I2CVuggesystem

EZI2C

Slave

Endstop switch

ESSwitch
Endstop_isr