Might want a message que here for the gyro data. Not sure how my atomic push is working yet......

nominaly mutexed but not doing that because in 1 clock cycle it can write 32 bits
angle 1 shift left by 16 and or with angle 2 to make 32 bits

Timers!!!!!!

Quantum
Timer

Button

Flag

Atomic uint32 angle1 and 2

BallStuff

SemaphoreButtonPressed

SemaphoreButtonReleased

Gyro

QuantumBurst

GyroRead

BallMutex

BallMutex

QuantumMutex

QuantamStuff

QuantumMutex

Display

PhysicsCalculate

ObsticalSemaphore

QuantumMutex

Obstical

LEDdrive

ObsticalTask

ObsticalSemaphore

LED1

LED2

RNG