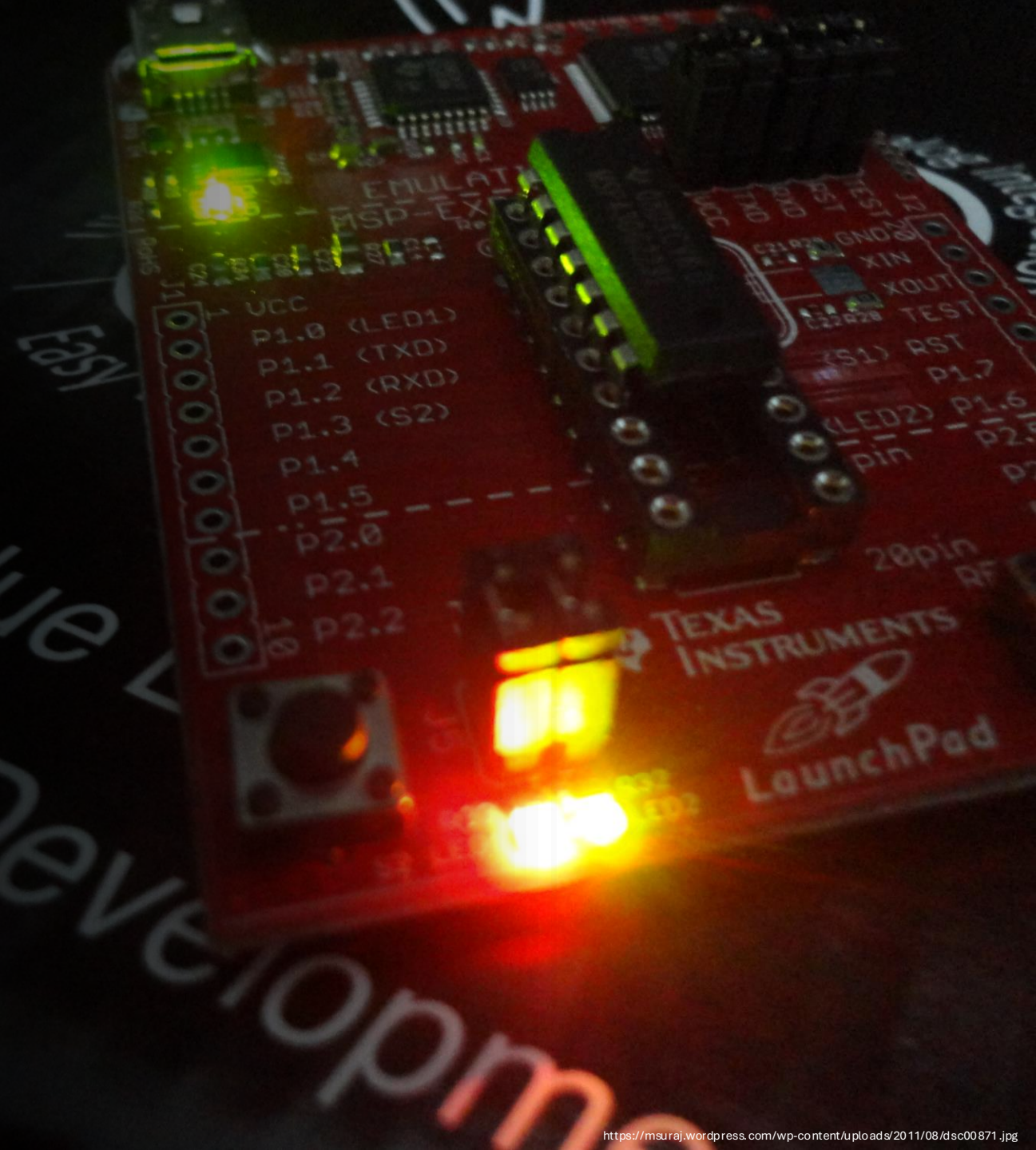




# EELE 465

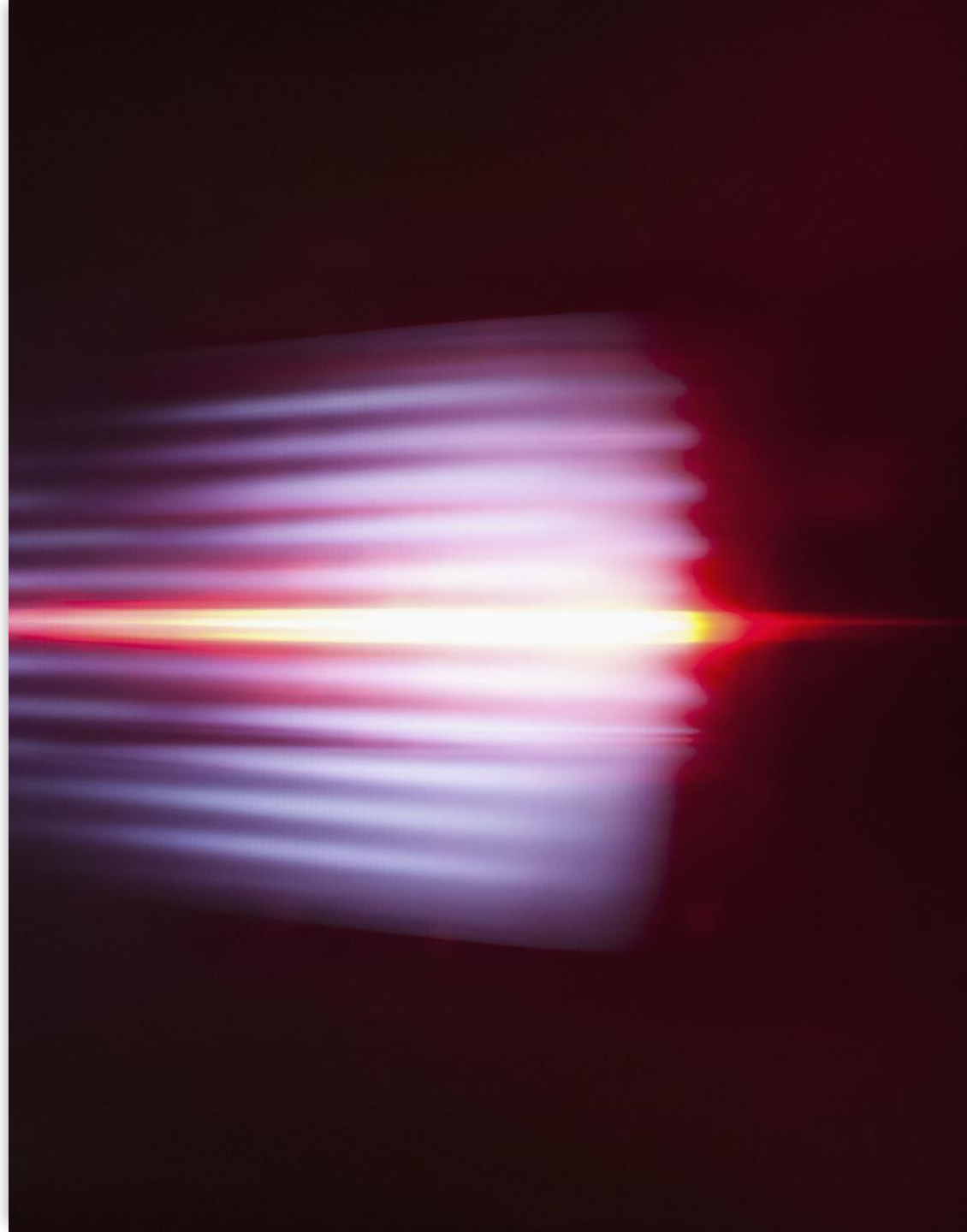
## Project 1- Heartbeat LED

Erik Callery



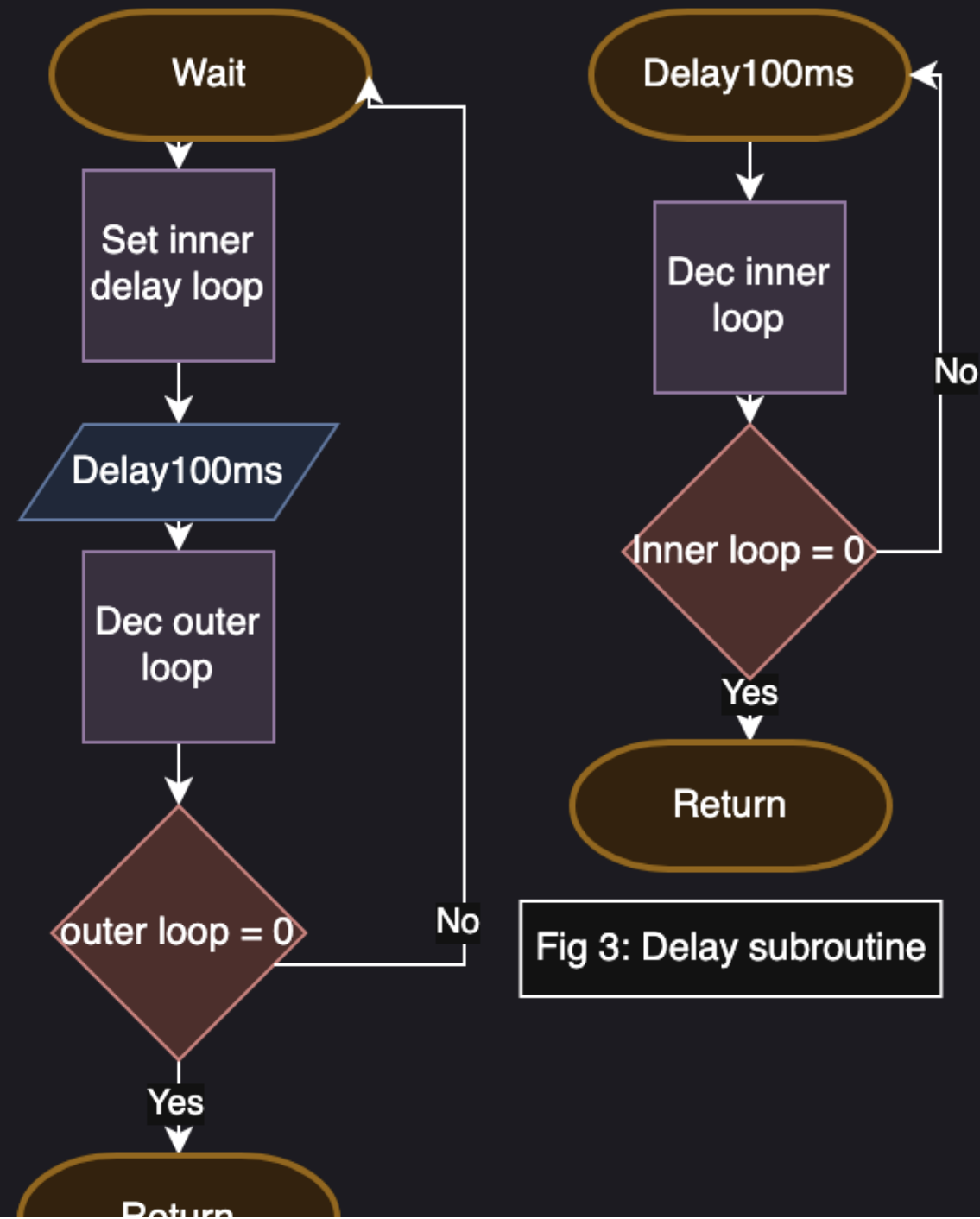
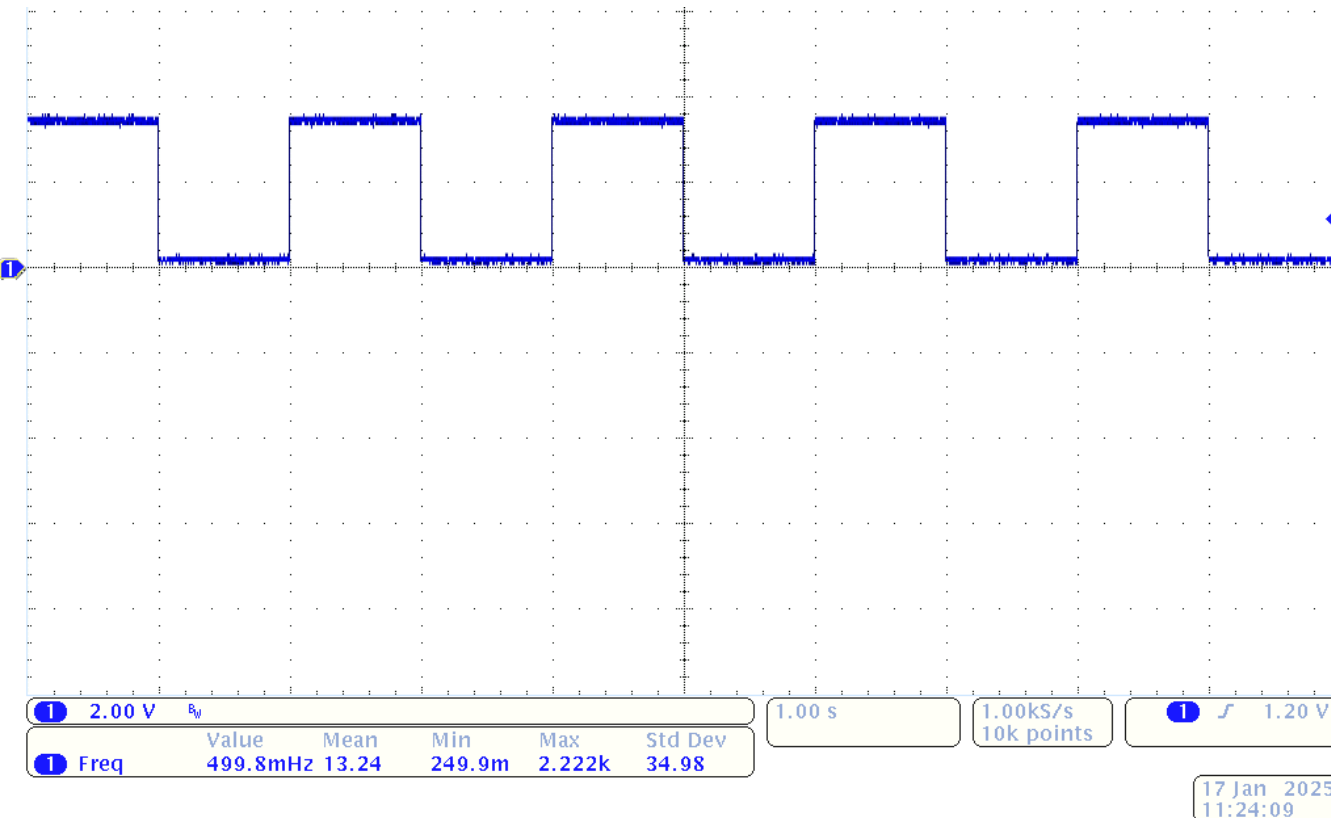
# Overview

- Flash the built-in LEDs on the MSP430 at a specified rate
- Can help debug



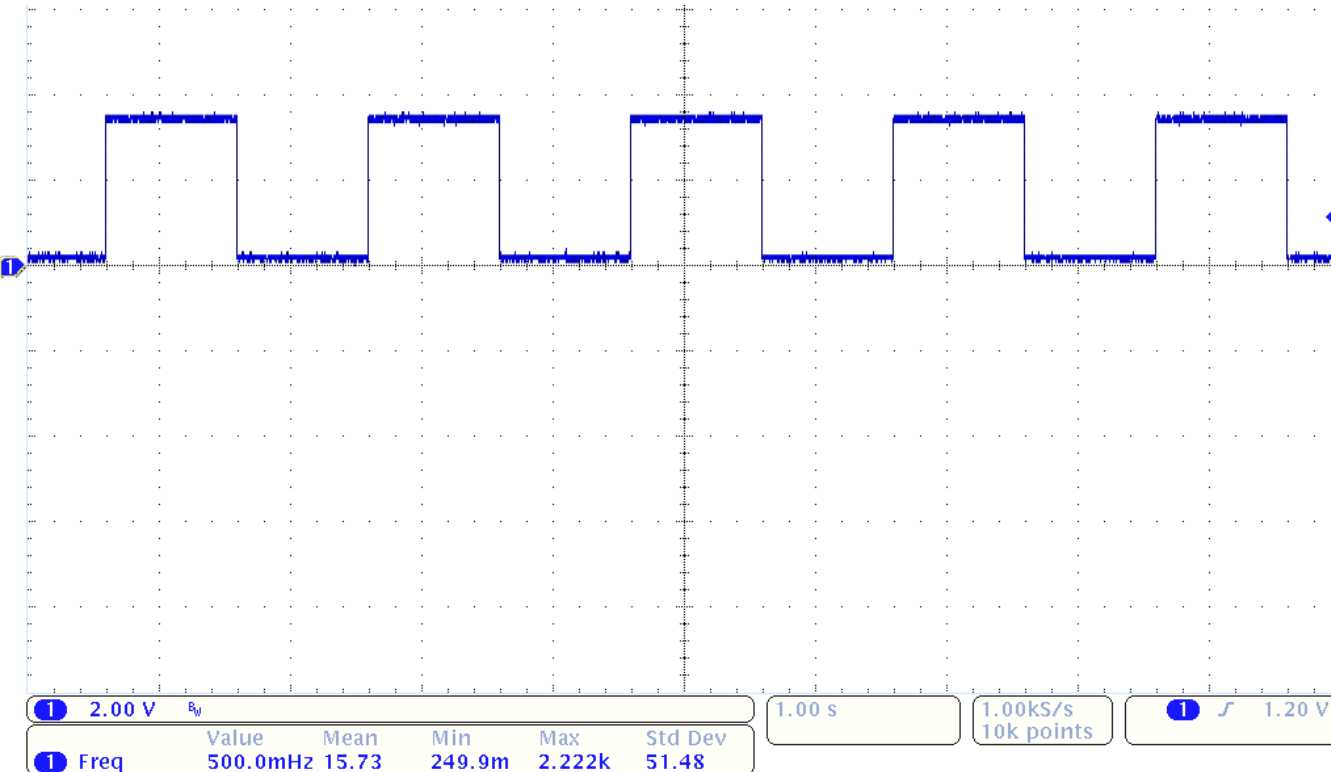
# Delay Loop

- 50000 to 35000
- 100 ms period inner



# Timer-Interrupt

- Start with ACLK
- 32768 to match full count
- Could have used SMCLK



17 Jan 2025  
11:24:41

Init  
P6.6 as output

Timer B0 as  
\* ACLK  
\* Up counting  
\* Count to 32768

Enable compare  
interrupt

TimerB0

Toggle  
Green  
LED, clear  
IFG

Return

Fig 4: Timer B0 ISR

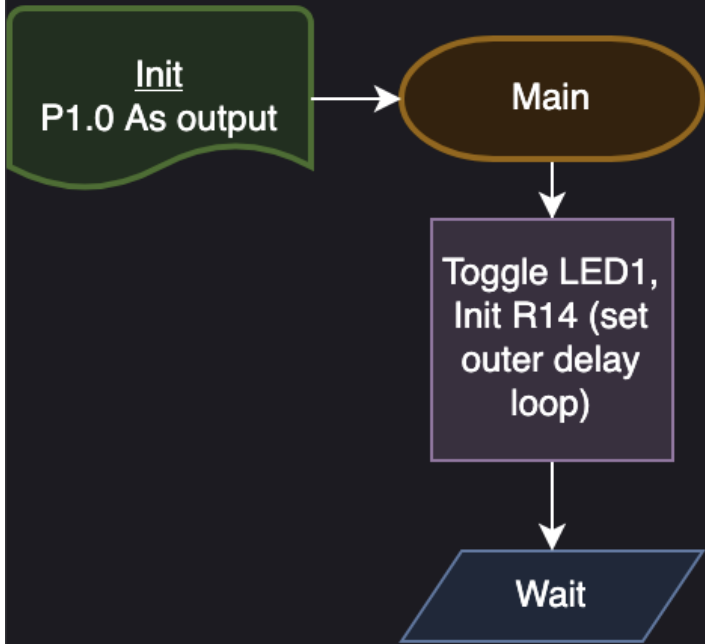


Fig 1. Main loop

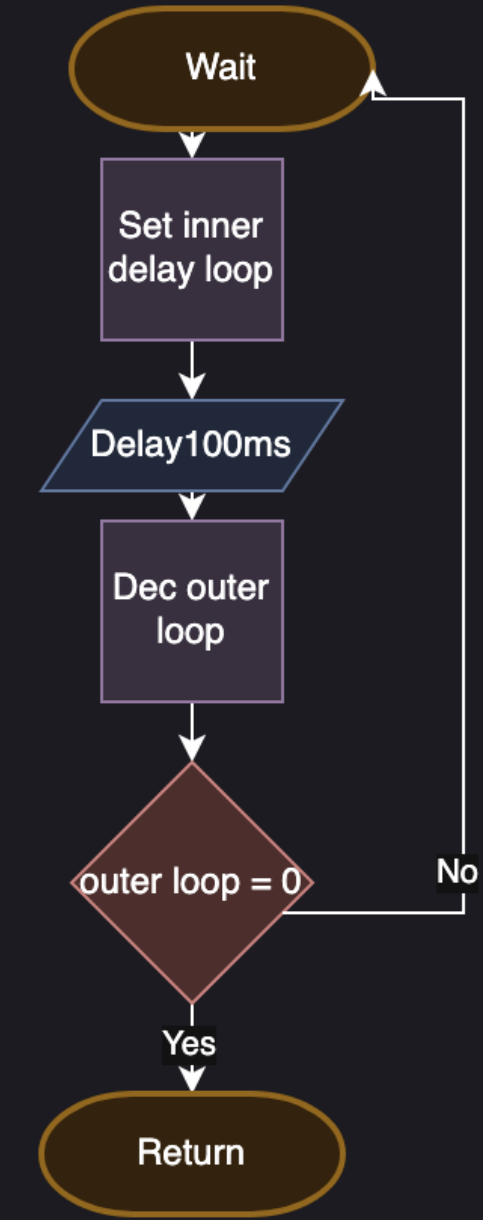


Fig 2: Wait Subroutine

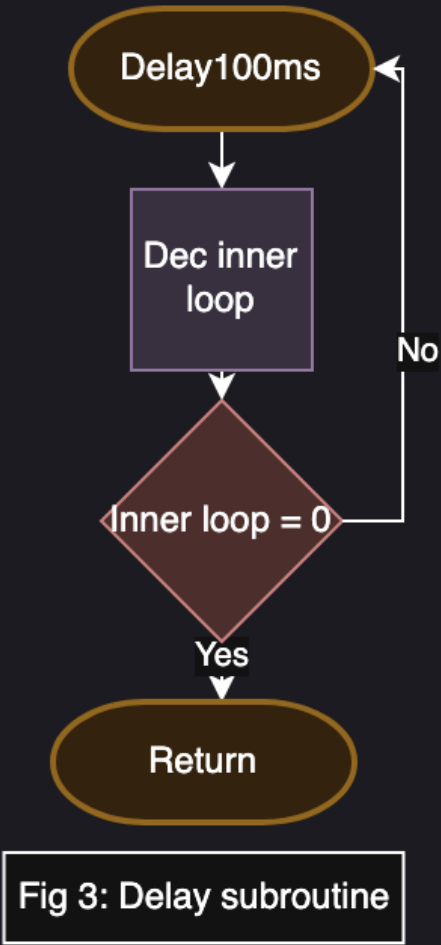


Fig 3: Delay subroutine

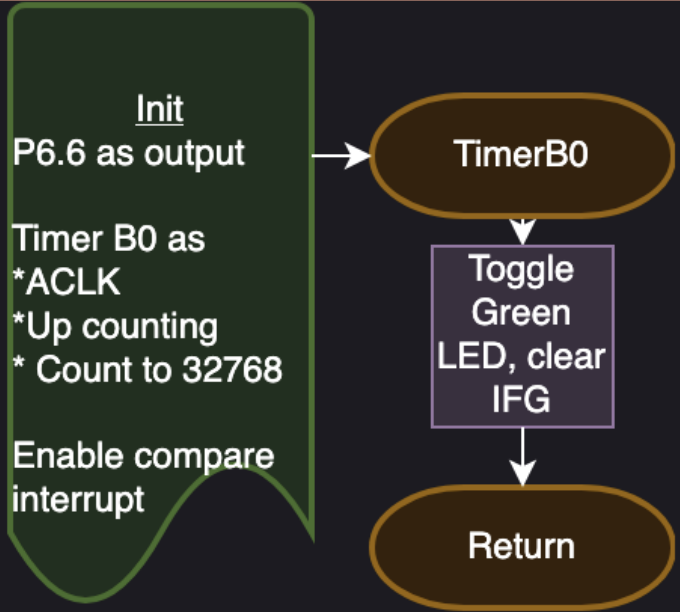


Fig 4: Timer B0 ISR