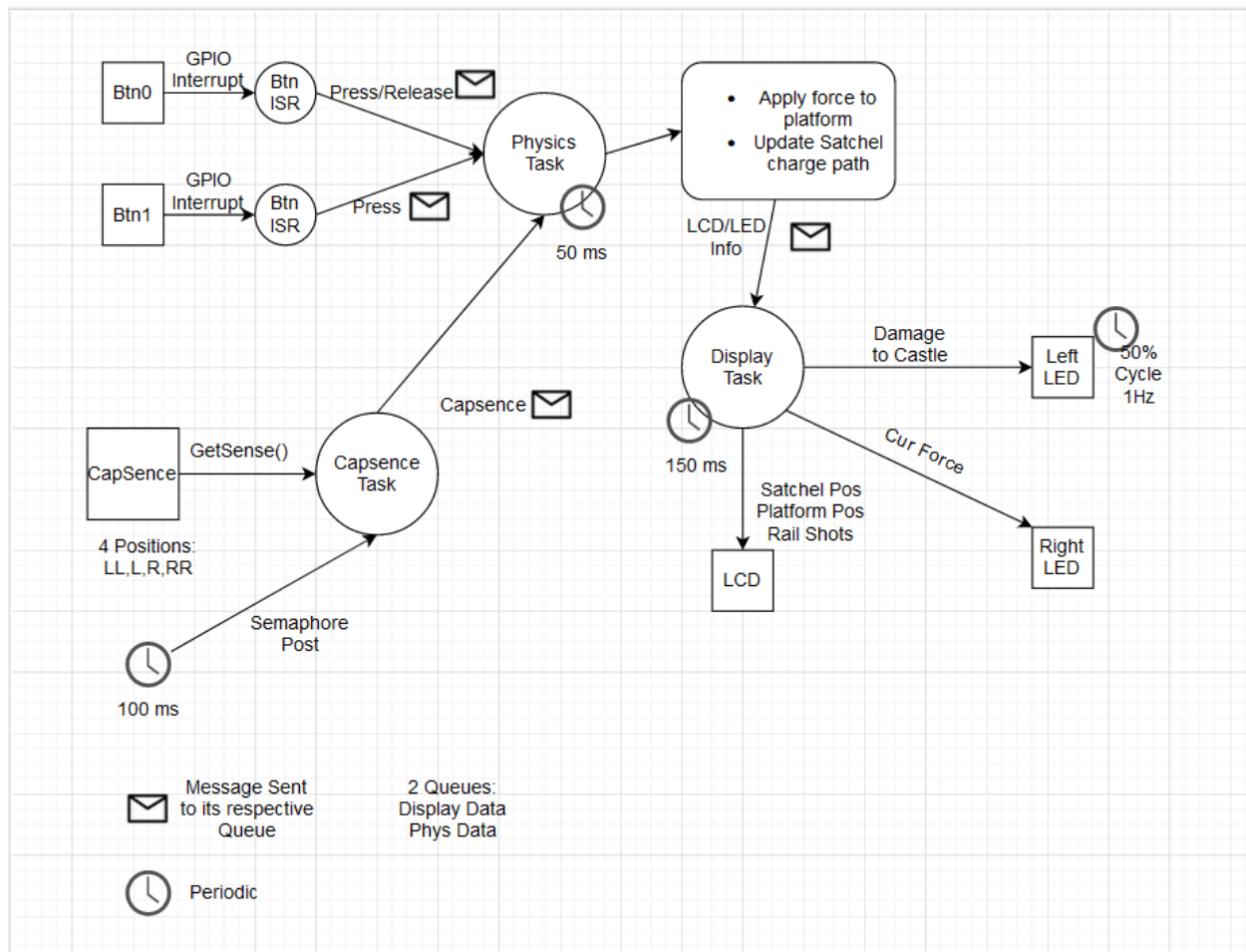


Week 3:

Task Diagram:



Test and Plan:

Unit Testing Plan (Min 3 cutting points) (Min 10 Tests)

- Queue functionality:
 - [Priority/Round Robin Functionality]: Complete Functionality
- Task OS management:
 - [Correct Task Creation/Able to Enter Each Task]: Complete Functionality
- Physics Task Input Functionality: (Button/Capsense testing)
 - [Capacitor Timer Callback/Semaphore Post]: PartialFunctionality
 - [Btn0 Press And Release]: Complete Functionality
 - [Btn1 Press Only]: Complete Functionality
 - [Enters Physics task every 50ms if no Msg Queue]: Current Issue
- Physics Task Output Functionality:
 - [Satchel Pos]: Planned Out
 - [Platform Pos]: Planned Out
 - [Rail Shots]: Planned Out
 - [Enters Display task every 150ms if no Msg Queue]: Current Issue

- LED Cycle Test:
 - [50% Cycle 1 Hz]: NotRun
 - [PWM to show Force as % of MAX_FORCE]: NotRun
- LCD Functionality
 - [LCD]: Complete Functionality

Statement of where my Project Stands:

- This week I want to try to address some of my Risks from previous weeks and I want to set up the basic outline for my Physics Task.
 - I went through the documentation and outlined in comments how I would structure the updates in my Physics Task.
- I want to ensure I can use the LCD properly and fix my Capacitor task.
 - I ensured my LCD worked, this was a huge step forward in mitigating risks as I was unable to get LCD working during Lab 7.
 - I worked on my Capacitor task and have identified what the issue may be and will be talking to a TA on 4/14/23

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Summary Effort & Estimate Numbers:

I have completed **55%** of my currently-scoped, estimated work (**12** estimated for work completed thus far 20 /hr total estimate)

This week I

List of in-scope work Items:

- % Of Test Cases implemented:6/13
- % Of Test Cases Passing:5/13
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