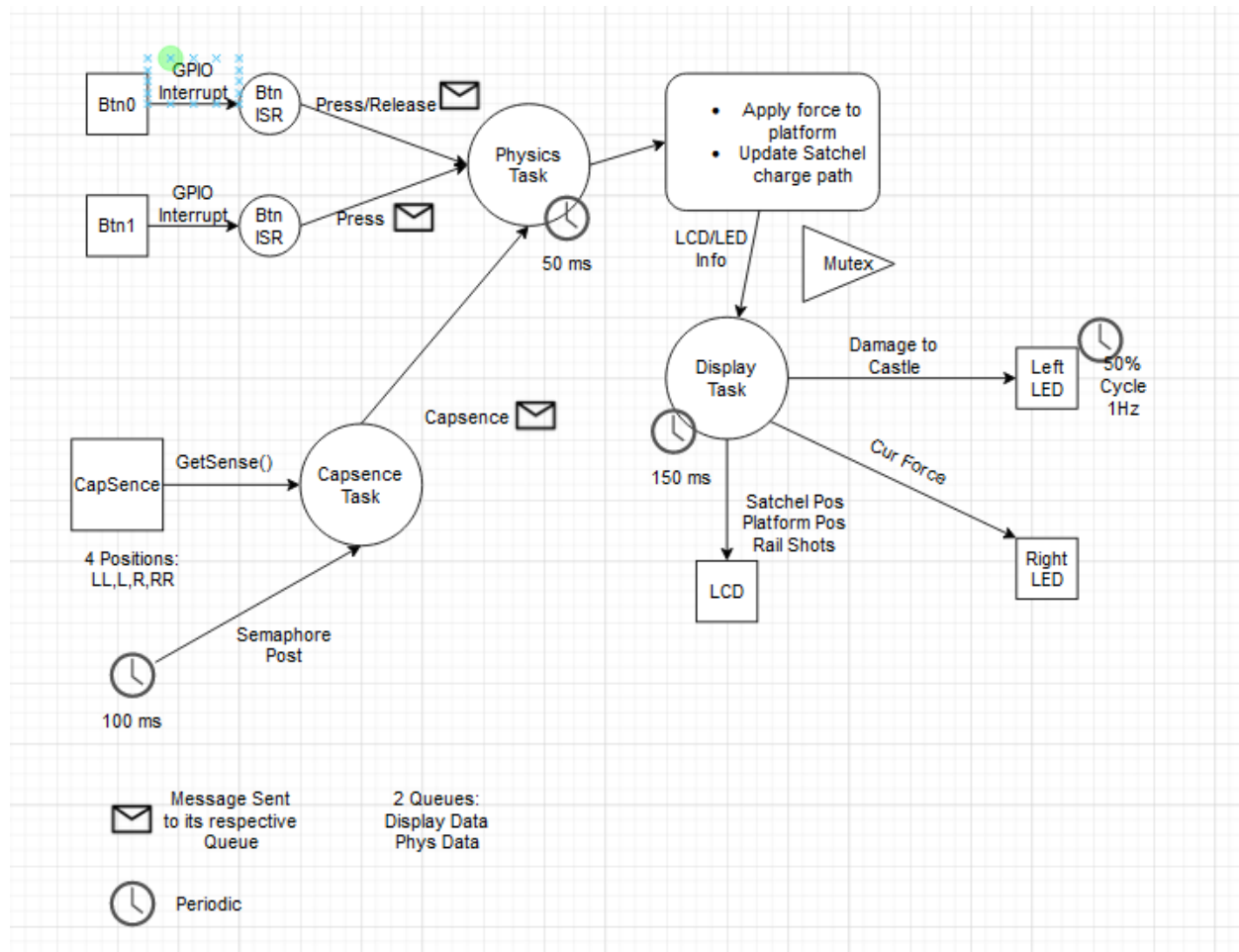


## Week 5:

### 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]: Complete Functionality
  - [Btn0 Press And Release]: Complete Functionality
  - [Btn1 Press Only]: Complete Functionality
  - [Enters Physics task every 50ms if no Msg Queue]: Complete Functionality
- Physics Task Output Functionality:
  - [Satchel Pos]: Written
  - [Platform Pos]: Written
  - [Rail Shots]: Written
  - [Enters Display task every 150ms if no Msg Queue]: Complete Functionality

- LED Cycle Test:
  - [50% Cycle 1 Hz]: Semi-Written/Tested
  - [PWM to show Force as % of MAX\_FORCE]: Semi-Written/Tested
- LCD Functionality
  - [LCD]: Complete Functionality

#### **Statement of where my Project Stands:**

- This week I had to catch up and rebuild my entire project. I was able to do so and retest lots of the functionality. This time I did get COMPLETE timer functionality!
- My project isn't done as I was really behind but I have made a clear plan for every part of my project so I can be confident and ready by Wednesday.
- I went over how to implement the remainder of what I hadn't implemented in my project such as the objects in the display. The mutex for the display object and how that ITC should handle multiple objects of the same struct. I also refined my LED timing and parts of my Physics task back end.
- I have set up times to meet with Nicholas on Sunday, Louis ( class member) on Saturday, and Will(TA) after Monday in order to ensure I complete this assignment.

#### **Summary Effort & Estimate Numbers:**

I have completed **60%** of my currently-scoped, estimated work (**25** estimated for work completed thus far 45 /hr total estimate)

#### **List of in-scope work Items:**

- % Of Test Cases implemented:13/13
- % Of Test Cases Passing:9/13
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