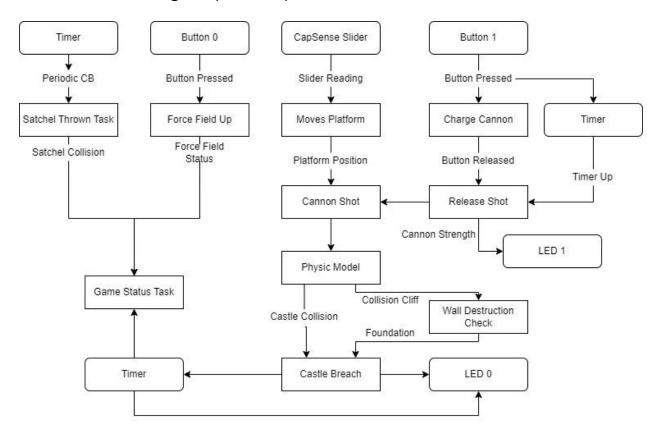
# **Project Report Week 2**

## **Data Flow Diagram (tentative):**



### **Test Plan**

One test I wanted to test was getting the LCD screen working. This includes displaying to the LCD, making designs, and moving objects on the screen. There's still a few aspects that I wish to test more, but for the most part, I got many of these tests to work.

#### **Current State:**

This week, my main focus was working with the LCD screen. I wasn't quite sure how to use the screen prior to this week, so I spent a lot of time learning to operate it. I felt that it was important to get this module down before continuing. Going forward, I hope that this commitment will aid me with the rest of my project.

The physics model is something that I expect will take me a long amount of time.

With the LCD working, I believe that taking the extra amount of time to get the LCD will help reduce the time I spent coding the physics.

Next week, I hope to continue working on the LCD screen while also starting the physics model. Currently, I have equations that I hope to apply to the code. This should aid me in testing different behaviors that I can choose to use at the end.

#### **In-scope Work Items**

LCD Screen

This week was mainly used to focus on understanding the LCD screen and how to code to it. There's still different functions I want to test before I move on, so there's still work that needs to be done on it. As of right now, I was able to move a pixel across the screen. As I continue to work on this module, I want to make the pixel bounce off walls.

Physics Model

With the LCD Screen module progress, I can now comfortably start working on the physics for our game. As of now, I have the equations I will use laid out. One problem that has come up is converting the units of measurement of meters to pixels. I plan to use next week to calculate the conversions and test them.

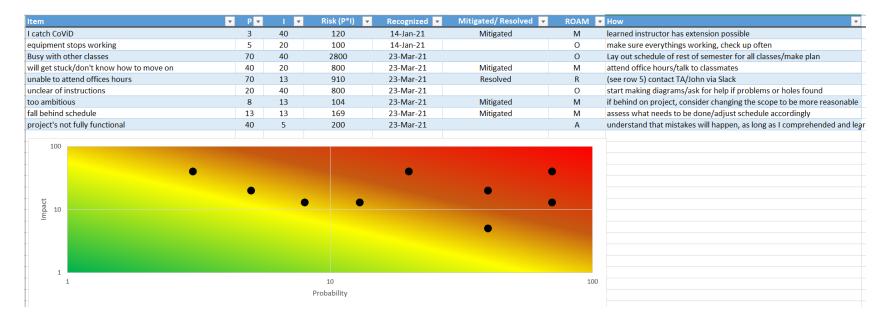
PWM LED

No change

### **Summary Effort & Time Estimates**

- Completed 15% of my currently-scoped, estimated work (7.5hr estimated for work completed thus far, 50 hr estimate)
- Used 14% of the budgeted total-project time. (8 time spent, of 50 hr estimate).
- For the work that has been completed, I took 2.5x (7/1) as much time as I estimated.

# **Risk Registers**



Little to no change for risk assessment.