

Week 1 Team Status

- What are the most significant risks that could jeopardize the success of the project? How are these risks being managed? What contingency plans are ready?

One of the biggest risks is how close we are to our budget limit. We are managing this risk by trying to account for all possible components we might need in order to make sure we have enough funds for everything.

- Were any changes made to the existing design of the system (requirements, block diagram, system spec, etc)? Why was this change necessary, what costs does the change incur, and how will these costs be mitigated going forward?

We changed our approach for detecting food. We had thought of keeping each food item in on a tray that is attached to a grid of push buttons. This would have to be designed so that the weight of each food item would cause a button to be pressed. However, while trying to find push buttons, we realized that push buttons need quite a bit of weight to press down, so a small amount of food like in appetizers may not be sufficient. Our new approach involves using a load sensor to detect the change in weight from food being eaten. With this approach we will not be able to determine the exact amount of food left, but we should still be able to determine when we are out of food, which is sufficient for our design. Also, the load sensor is only ~\$10, so it would not cause any issues with our budget.

- Provide an updated schedule if changes have occurred.

No changes in schedule