

Apeture Bioscience Laboratories

Progress Report 2 for NICView: A NICU Simulation

Due: 11/18/14

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I. Achievements for the Week

In the past week, we have made progress on our programming and graphic game design. First, we finalized the flow chart for our initial scenario. We have reviewed the Unity game tutorials and learned the basic Unity coding procedure. Once we learned how to code within the game, we began to brainstorm the code for our first in game scenario. Outside of programming, we began to design the mesh for our in-game baby. While it is possible to design 3D-structures in Unity, they are usually boxy and unrealistic. In order to get a realistic looking model, we will need to import a mesh from an outside source. There are a variety of 3D-design programs available online. We are choosing between: K3D (http://www.k-3d.org/wiki/Main_Page), 3D canvas (<http://amabilis.com/>), Mixamo, and Bioshop 3D (<http://www.blender.org/>). In order to decide which program to use, we will have to factor in cost, ease of use, and features. We have not yet received our second flow-chart from Dr. Krakauer, but Lindsey, Caitlin, and Amy have begun to design a basic outline that all flowcharts will follow in order to get a logical code for Jenn to follow.

II. Deviation from the Plan

We are on track in our graphic design and programming. However, we have fallen a bit behind on our flowchart design without the second scenario from Dr. Krakauer.

III. Corrective Action

To make up for this, we plan to work over Thanksgiving break to further our initial code so that we can be ready to code the second scenario immediately after we receive and flowchart it.

IV. Plan for Next Week

Because of a school break, we will not be meeting next week. However, we will continue to work on our program even when we are not meeting. By the time we reconvene on December 2, we will hopefully have some code available for Dr. Krakauer to approve. During our group meeting on the second, we will finalize our baby's design and begin the design of the feedback box and the incubator itself. Finally, we will meet with Dr. Krakauer on December 5 to show her our progress and receive our second scenario. By December 3, we hope to meet with a representative from CELA and begin to fill out an IRB for human testing. We will also discuss intellectual property rights with Dr. Krakauer in our meeting.