TO: ADAR PELAH

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SUBJECT: STROMOHAB ROUTE TO DEPLOYMENT

DATE: 10/06/2009

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ITEMS REQUIRING ACTION BEFORE STROMOLIGHT DEPLOYMENT

1) **Camera Mounting:**

    We will need a secure method of mounting the cameras in the deployment location. We should be able to build a framework from our existing scaffold, so this does not present too much of a problem.

2) **Treadmill Control + Speed Recording:**
    a. What treadmill will we be deploying with?
    b. If not a Woodway, how can we record the speed + control the treadmill?
        i. *Possible Solution One:* we could fix the Visualiser speed as part of the task design, and start/stop the Visualiser and treadmill independently. This might work, but is introducing multiple controls for the system, over-complicating the system.
        ii. *Possible Solution Two:* design and build a speed detector that is independent of the treadmill, and is capable of reporting the treadmill speed to the Visualiser. This solves half the problem, but still leaves the issue of starting/stopping the treadmill.
        iii. *Possible Solution Three:* find out what treadmill we will be deploying with, and implement software control for that treadmill if it is available. <u>This is the ideal solution.</u>

3) **Requirements definition – Task and Results:**

    The task designer will allow us to easily create and implement tasks, but we still need to decide what these tasks will be. This is allied to us developing experiments, which in turn relies on us defining exactly what we want to discover from testing patients.

4) **User Interface - Migration to a single machine:**

    At present, StromoLight is spread over two machines – one handling the graphics and motion capture, and one providing a user interface. It is fairly trivial to move the program code onto one machine, though a little thought will need to be put into a single, coherent user interface. This isn't viewed as a major barrier to deployment – estimated approx 2-3 days work.

5) **Robustness Testing/Normals Testing:**

    Before deploying in a clinical environment, it would be desirable to test the setup to iron out any unforeseen problems.

SUMMARY

Most of the StromoLight software is ready to deploy – the task designer needs finishing, and the user interface migrating to a one-machine setup. These are tasks which are on course to be completed in the next fortnight. The remaining barriers to deployment are hardware and logistics related – if we can solve these issues, especially item 2) we can be ready to test the deployment setup by early-mid July.