MyPAM Meeting 2 Minutes

21/06/19

Present: Justin, Adam, Martin, Helcius, Will, Mitchell

* The goal is to future proof the system by making a specification for future game developers to follow, such as format of data flow I/O

Mitchell

General:

* Mini-myPAM has been built with an emulation of the joystick, without movement assist but with potentiometers and an ADC to measure position
* It has been set up to communicate with a version of the bridge game
* Modular code now works by having a central server with the modules each being a separate program
* Having the game run at 30Hz should be enough to get the correct target position
* Started work on the new system but couldn’t get it to work in one day
* Wants to start creating a virtual controller to help game designers test their games

Actions:

* Mitchell: get ACK system working
* Build virtual testing controller

Will

General:

* Added SFX and music
* Added score calculation
* Added timing system
* Refactored a large amount code to make it more manageable and make data I/O more accessible
* Integrated communication with Mitchell’s creation

Actions:

* Start sending data (coordinates, timestamp, target position, origin position, level, attempts, etc) to a CSV file
* Explore
* Explore changing the size of the bridge if the patient is unable to complete the level
* Could provide the option to expand bridges at the expense of points
* Explore possibility of curved bridges

Helcius

General:

* Added scoring system
* Added failure condition
* Added 15 levels
* Each 5 level add a difficulty factor e.g. distance between rings, size of rings, obstacles
* 3 points per level for demo
* Added sfx and music

Actions:

* Need to work out a way for the obstacles to generate such that there is a path between the player and the ring, which the myPAM can assist with
* Work on integration with the testing joystick
* New levels, obstacles
* Visually demonstrate the 3D position of obstacles

New game ideas:

* Storyline keeps people interested
* Would be good to work on a couple of scenes and figure out how to integrate the myPAM
* Tilt maze – choose a direction then use the joystick to tilt the board
* Need to contact a therapist to discuss the control of patients with the arm they need to rehabilitate, the other arm, how it currently works etc