

INDIVIDUAL JOURNAL (2/13)

This past week we met at GoCreate at John Bardo Center. The EE guys (Ali and myself) we worked on the circuit device and the components. Also, we worked on the G force and motion in order to get a accurate value but it was a failure. The CS guys (Julian and Dallas) they worked on the coding and trying to figure out how to get the radio frequency in order to send data.

The whole group decided the type of helmet that will be brought in the near future as well the position in order to place the device inside the helmet. So far it will either be a plastic shell to protect the device and cover it up with a cushion or placing the components between existing cushion pads and covering them up with another cushion layer. This coming Monday we will continue to work on the G force and detect it at real time.

INDIVIDUAL JOURNAL (2/27)

As I mentioned in the previous individual journal about grabbing a newer helmet and trying to figure out the accurate value for the G force.

Unfortunately, it was a fail for us because some of the sensors we ordered were not functioning properly and then LoRowan has not been working too. Since, switching up to a newer and fresher project would be a waste of time and we wanted to do another project with the same type of application.

We had 2 meetings with Professor Stallard. On the initial meeting we discussed about the new idea and we came to the conclusion to go with a Kneepad (where it will calculate the force and measure of the knee) and we will hook up 2 sensors in both kneepads in order to calculate for both knees and the value/measurement will be stored in a SD card. In our second meeting with Professor Stallard, we discussed the reason of not doing the helmet again, discussed the possibilities of this kneepad and how it will bring great changes to the medical world, informed us how we have to study

the human knee and calculate all measurements and movement especially when an individual is injured. Julian already ordered some parts and sensors to test it out and see and this Monday when we have our team meeting, the EE guys (Ali and myself) are going to take it and test things out and see how the components will hook up and work.