**Meeting Minutes - January 18th, 2023**

**Potential Deliverables**

Term 1: Development of user interface, visualization, cloud storage database for Eliko system and rink IoT sensors. Deliver working interface before summer

* Development of user interface – PYQT5, Matplotlib
* Kalman Filter
* Eliko RTLS System

Term 2: Expand analytics platform through development of task recognition algorithms using 2D position, IMU, historical data on player

**Meeting Overview**

Team Introductions

* Ryan does research product performance
* Tracking player position real time
* Real time position for stats
* Track players with tags, well developed
* Real world data, application
* Dictate user interface
* Track production line for skate
* Position of skate throughout
* Interface that is universal enough for one or the other
* Different tools for tags, filter, metadata, player number
* Querying tools, database
* Control data, search data
* Detect what players are doing, acceleration data for where shots done (this is 2nd term)

State that this is our project, they are our clients

Confidentiality (confirm the degree to which the project must stay confidential)

* He will get NDAs ready
* Presentations should be reviewed together beforehand
* Prof has access to github

Project description

Initial Requirements

Questions for Monday:

* Could you please give us an overview of the project?
* Are there any particular cloud storage services you had in mind?
* What's the budget for the cloud storage database?
  + Research best way to store recorded at 20hz 1hour- ½
  + Do we need to store positional data long term, or just events long term
  + Use amazon for current application
  + Propose different storage rates
  + A lot of coding examples NFL, what servers they are storing data
  + NHL data sets
* Ask about predictive movement
* Other intentions
* What do you value the most in regards to features for the working prototype?
* Process for completing NDAs?
* Main mode of communication?
* What are the main objectives (benefit to customer)?
* What are the future plans for maintainability/what are things we should consider currently for future?
  + Future features
  + Track X,Y → beginner
  + Still be able to store other data userID
  + Presence sensor, binary on off (if on bench or not)
  + Environmental sensor, ice condition
  + Accelemonitor data

**Anticipated Risks**

**Notes From the Meeting**

we search whats the best way to store the data

use amazon for certain applications or for basic sql stuff we have our own servers

since we're not pulling too much data shouldn't cost too much

rather than limit us to a tool would like us to do some research and come up with the best options for our project in particular

nfl data sets has some info and see what servers they use and what they store their data for and hockey he'll share a link gives us preview

for data storage structure

other sources of data we need to store?

x, y don't care about a z since it is a flat plane

accelometer data and such would be nice to tie in but that would be 2nd term situation

will share some files with us about the api and such will make an ignite file share and send relevant files in their and will share a link

to us, will start putting files on git for us later if possible

have a live system that we can remote into to play with the live reponses, will work on getting web access to that but it would be good to see

the tags that are moving, could tag a zambonie and such

Power BI if Bower wants it we could use that

get to the stage that and user/field users can use this and store it in the database and not locally