EE / CprE / SE 491 – sdmay19-01

Athlete Motion Tracking

Week 10 Report

4/11/19 – 4/17/19
Client: Nathan Johnson
Faculty Advisor: Phillip Jones

Team Members:

Nathan Mazarelo –– *Weekly Reporter/Software Developer*
Monte Friestad –– *Spokesperson/Software Developer*
Madeline Rogers –– *Meeting Facilitator/Hardware* Maintainer
Ryan Hansen – *Scribe/Hardware Maintainer*

Weekly Summary

This week our team got together and used our camera system with the ipi software to retrieve test data and videos to be used in our final presentation and poster. The camera system was fully setup and calibrated for the environment. Work was started on the final poster. In the data analysis program, the program was tested with the data retrieved from the video recordings. Multiple video export was implemented to get individual videos of specific parts of the body that the user wants to track. In the web app, work was continued on integration with videos.

Past Week Accomplishments

- Tested camera setup, Final Poster creation-Maddie & Ryan
    - Camera testing
        - Tested the camera system to create content for final demo along with testing and validation for the overall system.
    - Final poster
        - Created the poster for the final demo
        - Created some of the content for the poster along with making sure it meets the specifications outlined in the rubric.

- Continued work on data analysis program, Fixing Ipi recordings- Nathan
    - Fixing Ipi recordings
        - After team meeting on Saturday, worked on fixing some of the ipi video recordings to get some of the tracking to show properly. This involved

messing with some of the calibration settings to read certain parts of the body and moving the ground plane.
- o Testing new data
  - ▪ Started to test the data from the video recordings by inserting into current data analysis program.
- o Multiple video exports
  - ▪ Implemented a second figure so we can export multiple videos of the specific body parts we want to analyze for use with web app.

- Continued work on the web application- Monte
  - o Continued to work on the web app to finish integration. Also, will be working on the poster.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Ryan Hansen	Tested the camera setup and got content. Began poster creation.	8	138
Madeline Rogers	Tested the camera setup and got content. Began poster creation.	8	135
Nathan Mazarelo	Fixed some of the ipi video recordings to get some of the tracking to show properly. Tested the new data with data analysis program. Implemented multiple video exports for different body parts.	12	148
Monte Friestad	Continued working on web app to finish integration.	14	145

Plans for Coming Week

- Team
  - o Finalize the poster before submission