Softball Team 2

PITCH PERFECT

EE/CprE/SE 491 WEEKLY REPORT 8

Oct 31, 2024 12:00 PM - Nov 7, 2024

Group number: 49

Project title: Slowpitch softball device

Client/Advisor: Nicholas Fila

Team Members/Role:

Cael Schreier: Bookkeeper and Code Review

Andrew Kinneer: Lead System Designer

Kyle Nachiengane: Lead Testing Engineer

Sam Skaar: Coordination and Documentation Lead

Kolby Moorman: Lead Client Outreach

- **Weekly Summary**

  We have reached the point of senior design where problems are starting to become more complex and require a lot more time to solve. As we step into mobile development, we are encountering issues with compilation that are difficult and frustrating to solve, and our object/height tracking methods are good, but to make them great requires more time. That being said, progress is still being made, and we are learning new challenges and breakthroughs each week.

- **Past week's accomplishments**
  - Andrew Kinneer: Further investigation into universal pitch tracking in both the day and night
  - Kyle Nachiengane: Worked with QT and experimented with Xcode and Swift-Objective-C.

  - Cael Schreier: This week was spent improving our height-tracking algorithm, testing some linear interpolation methods and trigonometry-related methods.

  - Kolby Moorman: This past week I began experimenting with qt and getting problems when it comes to building the application to run on ios/ios simulation.

  - Sam Skaar: Researched Apple development programs.

- **Pending issues**
  - Anytime tracking
  - Live height tracking
  - Specific device to use

- **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Andrew Kinneer	Attempts at better pitch tracking	5	34
Kyle Nachiengane	Continued getting qt to emulate ios and get opencv project in qt.	5	32
Cael Schreier	Improving height tracking algorithm	5	34

Kolby Moorman	Began implementing qt and trying to get an application up and running	4	32
Sam Skaar	Live height tracking "Dumbo Mode" implementation.	4	34

- o **Plans for the upcoming week**
    - Andrew Kinneer: Further narrow down better pitch tracking, try combinations of different methods

    - Kyle Nachiengane: Get basic app with tools implemented.

    - Cael Schreier: Continue improving our height tracking and try some live testing of height tracking

    - Kolby Moorman: Get a sample prototype of a simple application up and running

    - Sam Skaar: Dumbo Mode + website.

- o **Summary of weekly advisor meeting**

    This week in our advisor meeting we should our enhancement with object tracking of the softball as well as a prototype of our first iteration of height tracking. We also talked about issues we are currently facing when it comes to developing an application with qt and some of the build issues we were encountering.