

Practice Your Play

Challenge Problem and Resources



Developed by:

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Gaming Research Integration for Learning Laboratory™ (GRILL™)
Summer 2012

1. CHALLENGE PROBLEM: PRACTICE YOUR PLAY

Being a part of a team can be very rewarding. It also offers different kinds of challenges to individuals. How do you practice when no one else is around? What happens when the majority of the team has mastered the play, but one or two players have not? What if one member of the team wants or needs more practice? There are many apps and software programs that allow you to play a sport or pick your players and watch them play the game. There are many apps and programs that allow coaches to sketch out and run plays. What if an app or program existed that could offer individuals an opportunity to practice the play on their own?

The challenge is to develop an engaging, realistic platform that allows the individual user to practice plays as seen from his or her perspective but in relation to the other members of the team. The user should get feedback that assists in the mastery of the play and should have the ability to switch positions on each play or formation. All teams from basketball to marching band should be able to use the platform.

1.1. THE TOOLS

Here are some possible tools to use in the challenge:

- Cryengine®
- Scratch
- Source
- Unity
- SciLab

1.2. THE SOLUTION

Using existing gaming software or applications, create a game or app that allows the user or coach to input a play with assigned positions. Individual users should be able to sign on to a specific position and run through the play or formation in a realistic, 3D, interactive, virtual environment complete with teammates. Ideally, the simulation should be able to record the user's level of mastery of a play or routine. These results could be printed out or sent to the coach, band director or interested party.