MidSemester Demo!



Anshul Goyal

David Chow

Beth Anne Katz

Mike Hankowsky

Team BrightGoal (Team 2)

Project Status

Project Recap:

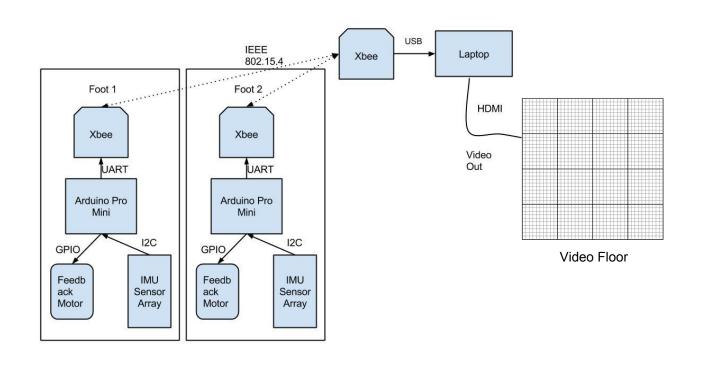
- Training tool for athletes to help with their footwork
- Demo will be an application of our tool an interactive form

Where we are:

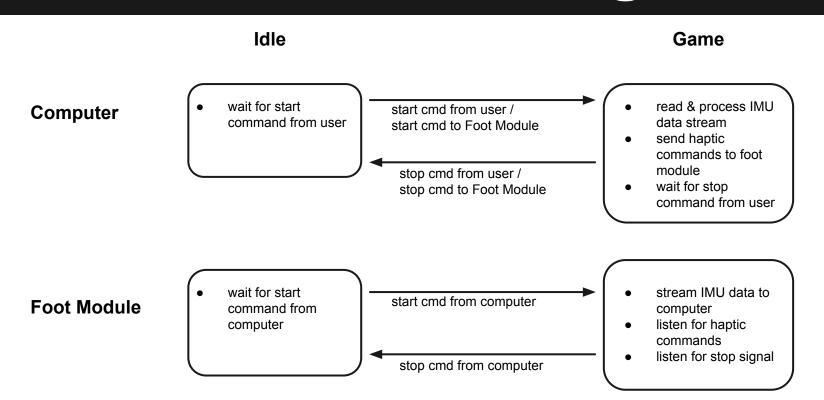
- Parts Ordered!!! Woo
- Consulting Soccer Coaches and Players
- Finalized use cases and mitigations



Architecture



State Transition Diagram



Use Cases

- Footwork Training
 - Agility drills
- Basic Skills
 - Positioning drills
- Practice Feedback
- Game Feedback





Risks

Mitigation

- Real Time
 - Sensor Data
 - b. Network
 - c. Computer Game
- 2. Durability
- 3. Bad IMU Data

- 4. Battery Life
- 5. Wireless Interference

- Load overhead
 - Superlow arduino load + sensor interrupts
 - b. lower sensor resolution
 - c. Fast libraries and languages
- 2. Custom Housing
- Keep running average + throw out extremes
- 4. Bigger battery / Multiple Batteries
- 5. Timestamp each message