The Goal

- It is beneficial to know when the swing foot is about 1cm off the ground, and about to hit.
- Potential for a 4x performance boost
The Old Solution: Whiskers
Solutions that we looked into:

• Infrared: Too sensitive to either ambient light, or reflectivity of surface below, would need to be constantly recalibrated
• Acoustic: Too slow, too much power
• Capacitive: Similar problems as Infrared, also more complicated, and needs too much power
Solution
Expected Pattern at the receiver

Peak = where sensor's line up, and ground is set distance away

Time
Reducing Ambient Light Effect: