Avtar Khalsa
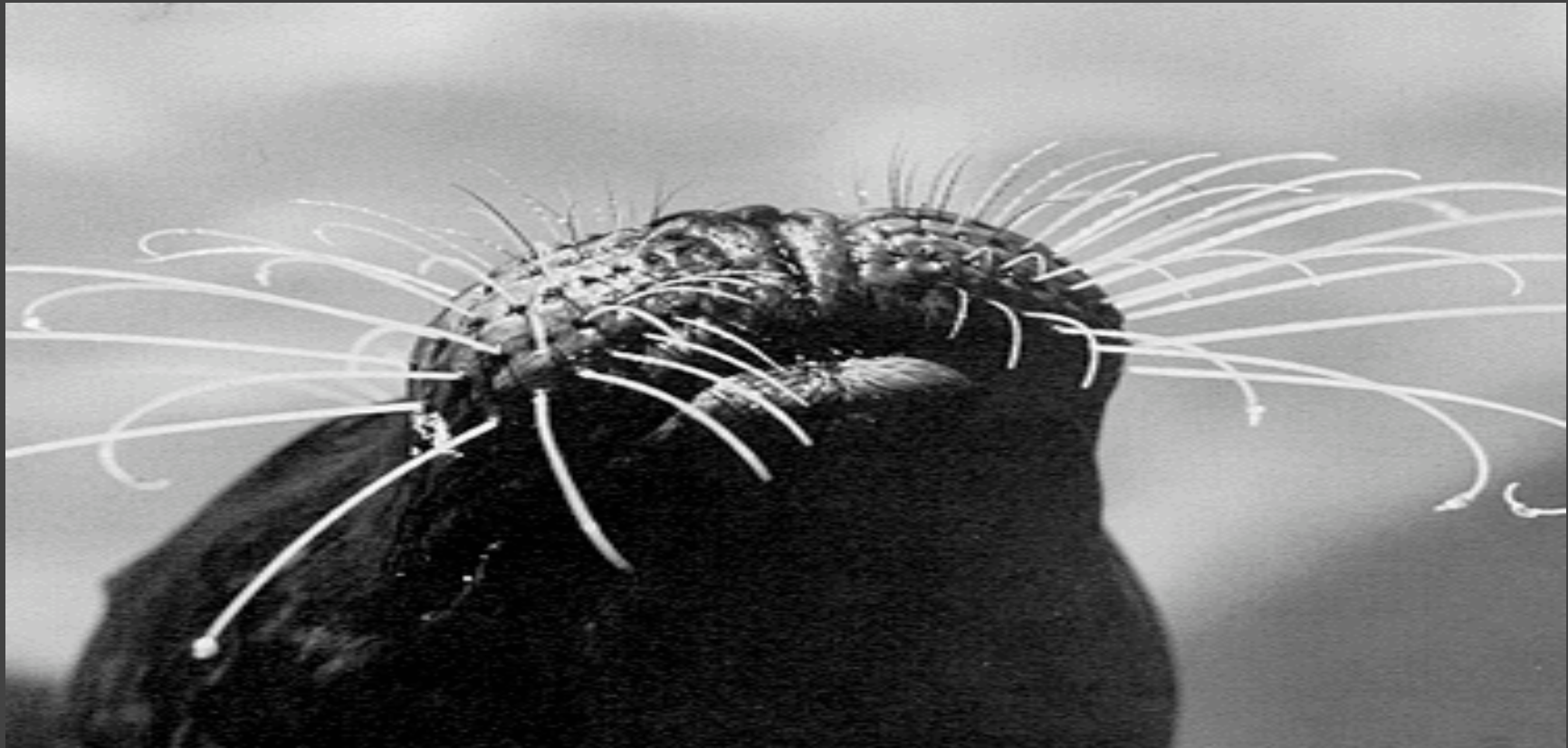# Walking Robot
Spring 2007

Cornell University

The Goal

- It is beneficial to know when the swing foot is about 1cm off the ground, and about to hit.

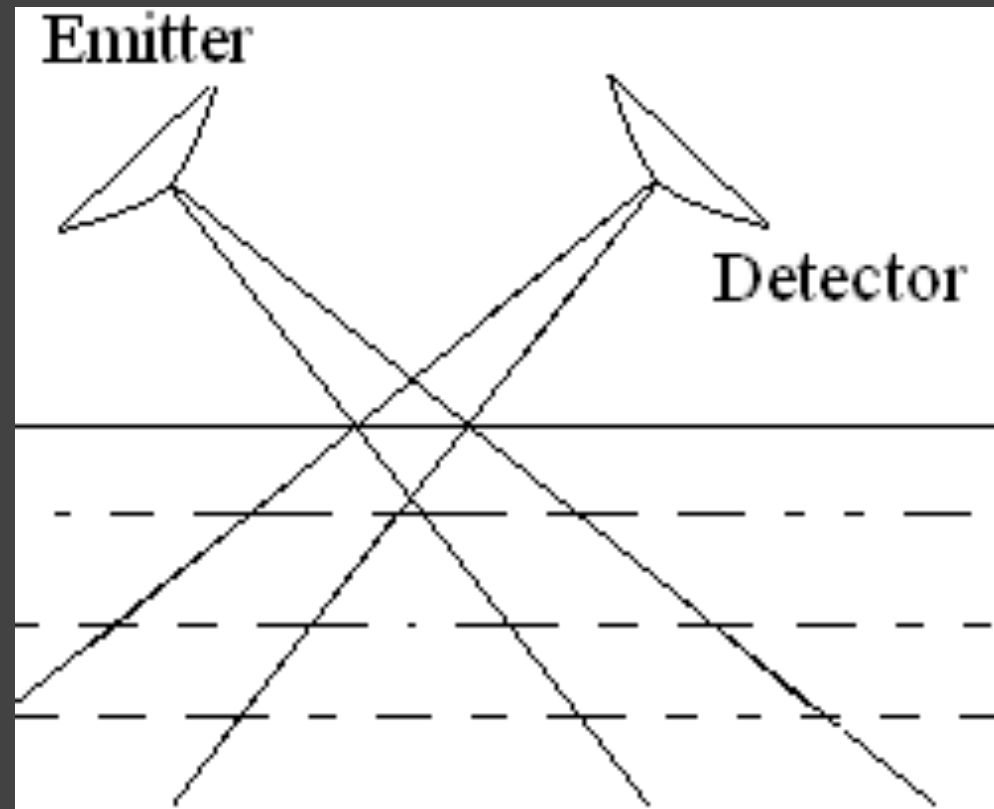- Potential for a 4x performance boost
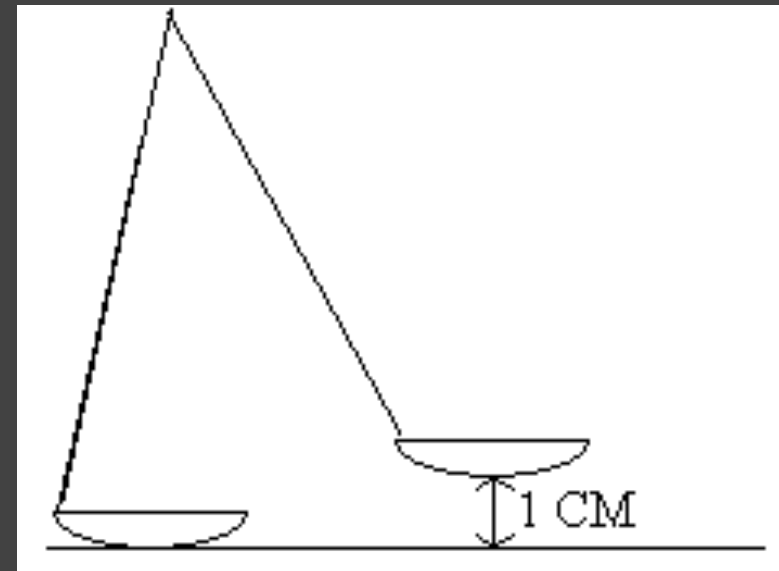
The Old Solution: Whiskers

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
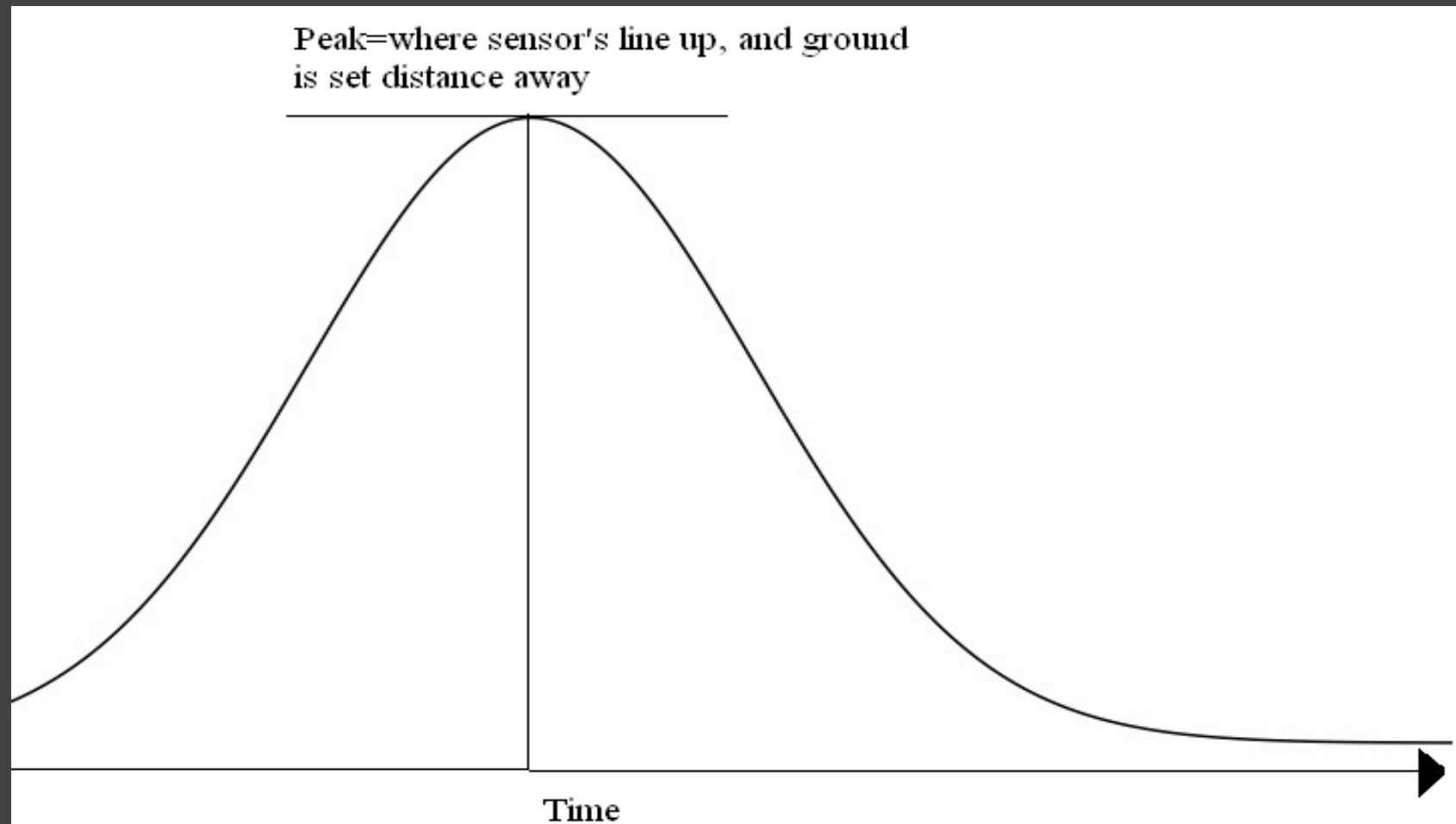- Capacitive: Similar problems as Infrared, also more complicated, and needs too much power

Solution

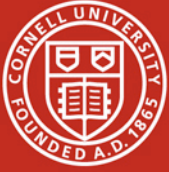# Expected Pattern at the reciever

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

Time

Reducing Ambient Light Effect: