Vision Tracking Robot

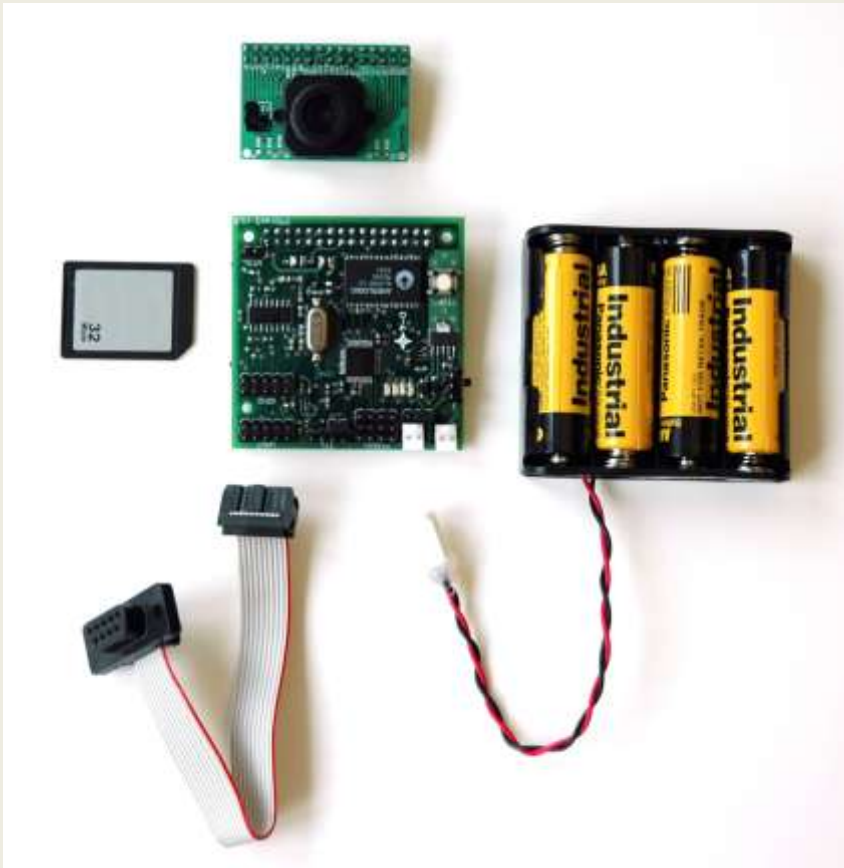## BENJAMIN NEWMAN

24 March 2011
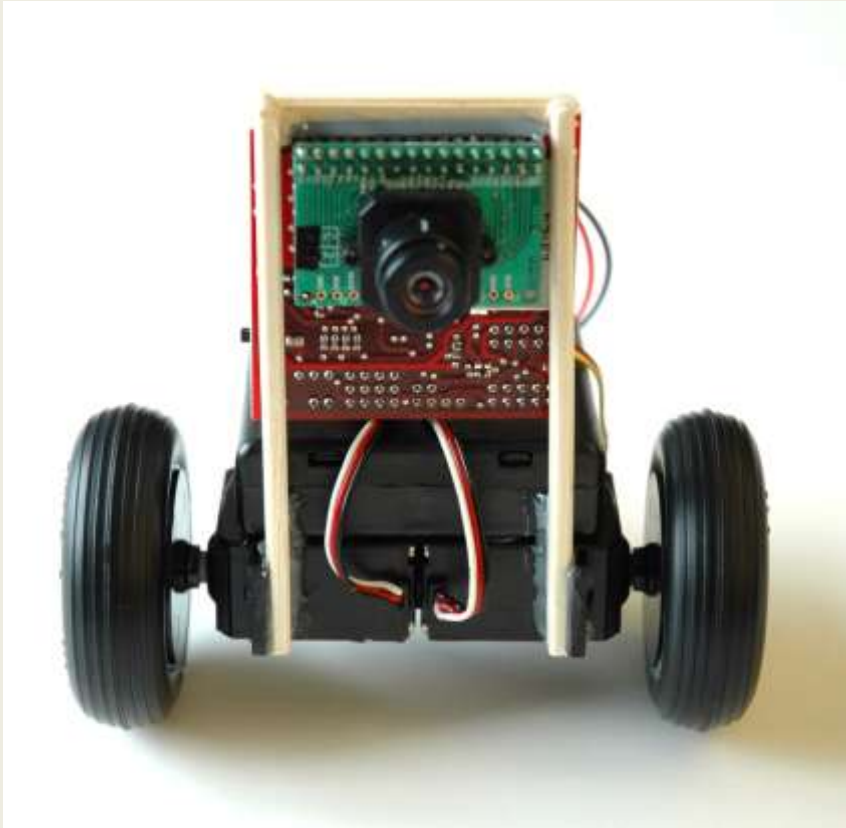**Austin E. Cofrin Hall, rm. 112**

The idea

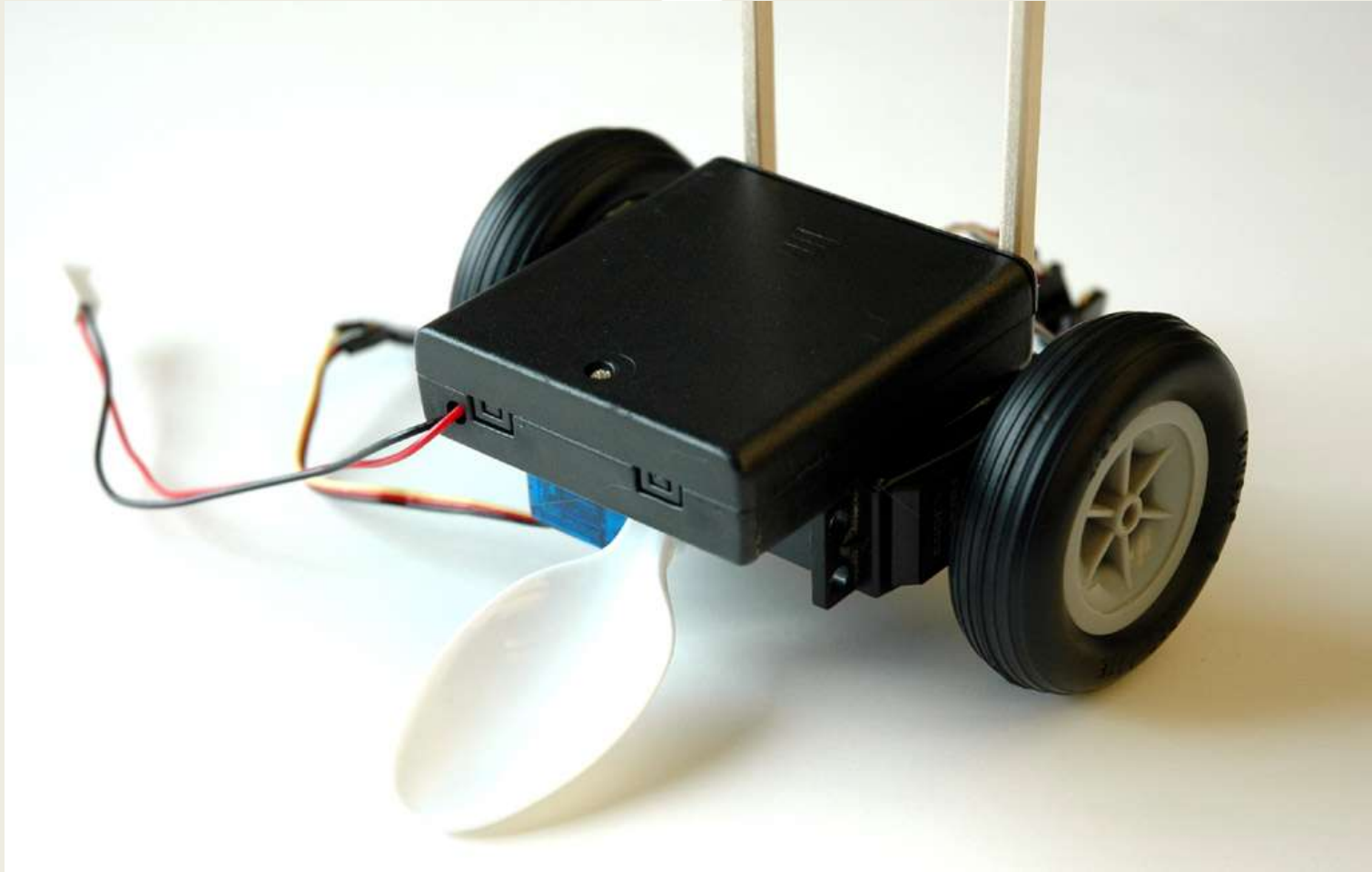# A ROBOT THAT TRACKS MOVEMENT WITH A CAMERA

CMUcam3

- Camera and microcontroller
- Programmable
  - Code and compile on PC
- $249

spoonBot

- CMUcam3 with wheels (and servo-motors and chopsticks)
- Pans and tilts

Why is it called a spoonBot?

Right now

- Can compile and flash code
- Can make the servo-motors motor
- Use serial connection
  - Strings and images
- Have parts to construct a spoonBot
  - Including the hot glue gun

Next steps

- Put the robot together
- Modify AC adapter
- What to track
  - Face?
  - Color?
  - Motion?
- Problems
  - Slow processor
  - Slow serial connection