gofi
the golfball finder

Ranjini Aravind
Anton Wilhelm
The Problem

- Est. 300 million golf balls are lost each year in the US.

- Golf balls are lost in lakes, forests, deserts, gardens, parking lots, cemeteries, ...

- Tracking and re-selling of lost golf balls is an annual $200 million industry
Solution

Autonomously track and find misplaced golf balls in a field:

- Randomly navigate through area
- Hover and rotate over found golf balls
- Do not leave boundaries of golf course (colored line)
Realization

• Use openCV for golf ball recognition

• Use third party software for boundary line recognition

• If boundary found, chose random valid angle

• For prototype: golf balls and ground color may not be white/green
Future Goals

• Obstacle detection and avoidance for detection of balls in forests, etc.

• Use markers to determine and transmit position of lost golf balls

• Attach claws to pick up golf balls and bring them back automatically
Thank you for your attention!