

# Are We There Yet

PROGRESS REPORT 6

# Tasks Completed

2

- ▶ Post Mortem 4
- ▶ Sprint 5 Backlog
- ▶ Prototypes

# Sprint 4 Postmortem

3

- ▶ What went well
  - ▶ Prototypes that were completed worked as expected
  - ▶ Prototypes identified flaws in the design that needed to be changed
- ▶ Needs Improvement
  - ▶ Scheduling
  - ▶ Communication

# Prototypes

4

- ▶ Etch-A-Sketch simulation
  - ▶ Proved algorithm to solve Etch-A-Sketch was feasible
- ▶ Line following
  - ▶ Proved that the sensors work with the Arduino; made switch to analog array with 8 sensors
- ▶ Arm system
  - ▶ Determined that original concept for arm would not be feasible
- ▶ Object Detection
  - ▶ Successfully recognized Etch-A-Sketch, Simon and Rubik's cube
  - ▶ Gives the centers of the objects in the frame which will allow for fine adjustments

# Currently Working On

5

- ▶ Prototype 2
  - ▶ Line-following with PID
  - ▶ Object detection
  - ▶ Simon Completion
  - ▶ Etch-A-Sketch completion
  - ▶ Arm articulation and movement
    - ▶ New are design is a rotating platform which contains all accessories required for the challenges, the platform will rotate into place
- ▶ Requirements Level 2



# Looking Ahead

6

- ▶ Level 2 Requirements
- ▶ SDS
- ▶ Hardware integration