Artisanal Cat Toy
Benner Boswell
Week 1

MVP
- Four sensors working in concert to steer 4 motors away from walls and other obstacles (ie cats).
- Code should reflect hierarchy of information

Add ons
- 6-8 sensors
- Servo motor steering
- Shield and h-bridge soldered
- Construction durable enough to withstand cat attack

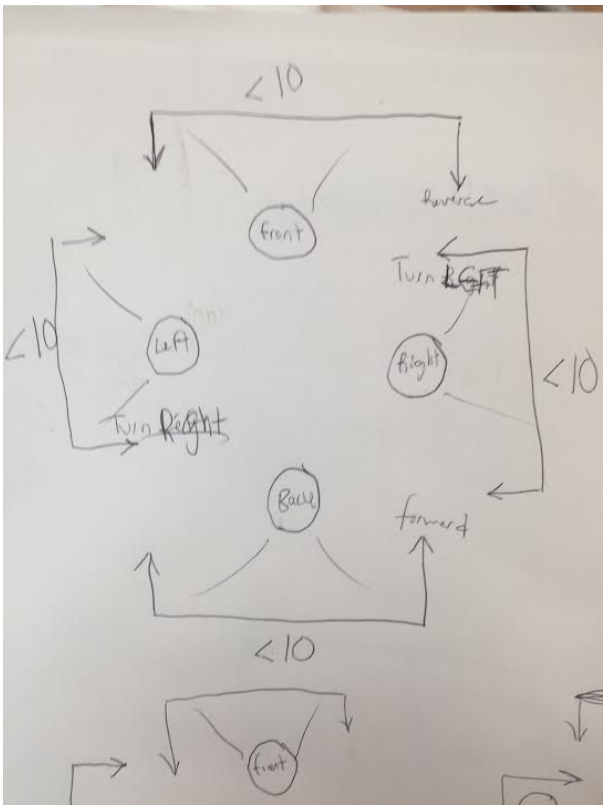
Challenges
- Writing code to prioritize sensor data
- Multi tasking with sensor data to steer and avoid obstacles
- Converting sensor data to servo write
- Understanding how code should be structured/most elegant way to write

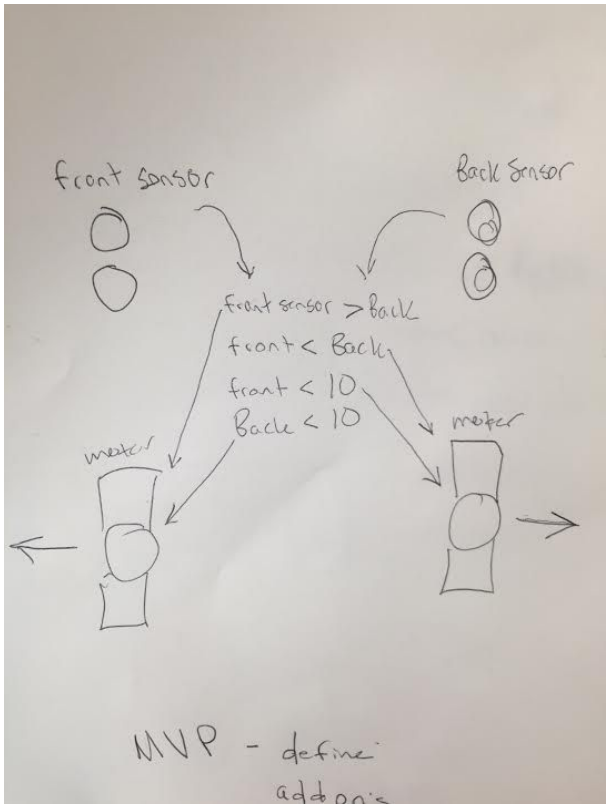
Where I am now
- Got motors to run based on sensor data with sample code (forward and back)
- Could not get more than one sensor to respond in reliable way
- Have 8 sensors, protosheilds, two servo motors and two D.C. motors (should be all needed parts)
- Understand I need two power sources
- Have basic understanding of circuitry

What's next
- Figure out code for MVP
- Create more of a "working" of a mock up
- Translate plain English code to real code

Plain English code
- Start going forward
- If a sensor reads less than 10 write motors to position or power supply to turn away from sensor
- If more than one sensor reads less than 10 write motors to move away from both

Sketches:


< 10
front
Turn
left
Right
< 10
< 10
Turn Right
Back
forward
< 10
front


front sensor
Back Sensor
front sensor > Back
front < Back
front < 10
Back < 10
motor
motor
MVP - define