The Globetrotters Notes – 4/20/17

# Feedback

* PCB
  + Make Bigger Traces
  + Use knife to fix the shorts
  + Test Bottom PCB with PWM
* Measure the duty cycles on each of the electromagnets
  + Dipoles
* PID
  + Low Duty Cycle then jumps to full Duty Cycle
    - Cause: Might be from too much Gain
  + Solution
    - Use a Pot to determine the constants (PID)
    - Try to turn down the Gain
    - Use 4 Sensors
      * More Accurate than using 2 because the Hall Effects are highly non-linear
  + Take Pictures of the Traces on the O-scope
  + More Testing
    - Measures the Hall-Effects with different positions in the x-y Direction
      * Measure every .0001 of an inch