**Day 8 Plan – Finish Guard Bot & The Amazing Hand**

**TODO:**

* photocopy logic worksheet
* finish 2 evaluations (good student and hard eval.)

**Morning**

* Talk about “Information Flow”
* Talking about “Sequential Control Flow”
* Introduce Boolean Logic / Truth Tables
* Logic Worksheet
* Program Face-Bot
* Test Face-Bot
* Journal (reflect)

**Break**

* ~~Guard – Bot line-following (30 min)~~ 
  + ~~If works, switch to full obstacle course for rest of day~~
* ~~Guard – Bot Shooting Range~~
  + ~~Set up hoops, shoot through them programmatically.~~
  + ~~If necessary, talk about ballistic trajectory~~
* Re-organize kits
* The Amazing Hand
  + Degrees of Freedom
    - Count Degrees of Freedom
  + Hand Video (Dean Kamen TED talk)
* Journaling Exercise – Hand Bot
  + Specification:
    - Pick up ball from table
    - Place on raised platform
    - Use at most 2 sensors, 3 motors
      * Great if can use less

**Lunch/Afternoon**

* Visit Bookstore
* Build Hand-Bot
* Program It
  + Test, Debug

**Late Afternoon**

* Andrew Design Presentation (20 min.)
* Finish Programming
* Hand-Bot Challenge
* Journaling
* Clean up