1. Bom
   1. emitters and detectors?
      1. server -> station / station -> server
      2. station queue test (move to home position for test)
      3. rotate to emitter i
      4. test emitter i
         1. -> turn on only light i
         2. <- done
         3. read
         4. -> turn lights off
         5. <- done
      5. rotate to detector i
      6. test detector i
         1. turn light on
         2. -> read
         3. <- data
         4. turn lights off
         5. -> read
         6. <- data
      7. go back to iii
      8. turn lights off
      9. send all data at once
      10. clean up?
   2. detector
2. IR Rangefiners
   1. max range and min range and linearity or loggishness
      1. station queue test (move to home position for test)
      2. Rotate to pos i (i = 1…5)
      3. k = 1…K
      4. set wall to position k
      5. -> read
      6. <- data
      7. if k%5 == 0 send data to server?
      8. go back to iii
      9. k = K…1
      10. set wall to position k
      11. -> read
      12. <- data
      13. if k%5 == 0 send data to server?
      14. go back to viii
      15. go back to ii
      16. flush rest of data
      17. clean up?
3. Motors
   1. max/min/turn on/ turn off
   2. relative accuracy
   3. linearity
4. Motors with new categorization
   1. velocity (PWM)
      1. station queue test (move to home position for test)
      2. i = 1…N
      3. -> set PWM
      4. <- wait steady
      5. multiple times
         1. measure encoder
         2. wait some time
         3. measure encoder
      6. go back to i
      7. i = N…1
      8. see above
      9. redo everything with the motors going backward
      10. redo everything with the other motor
      11. go back to vi
      12. send data
   2. encoder (position)
      1. station queue test (move to home position for test)
      2. multiple times
         1. -> turn motors on for (time)
         2. <- stopped
         3. ->read encoders
         4. <-data
         5. read encoders
      3. send data

Jobs

1. Robot Code (Mike)
   1. comm. (Evan)
2. Station Code
   1. hardware drivers (John)
   2. algorithms (Martin)
   3. comm. (server) (Martin)
   4. comm. (robot) (Evan)
3. Server Code
   1. Database (Emily)
   2. MATLAB (Emily)
   3. comm.(station) (Martin?)