Weekly reports are to be emailed to atbecker@uh.edu by 5:00pm on Tuesdays. The purpose of a weekly report is to: (1) give you text and images for your papers, thesis, and dissertation, (2) document progress, (3) identify if you are stuck or need resources.

Weekly report

1. **My *Goals* from last week**
   * Try to find a relation(formula) between r, a,n and s
2. **My *Accomplishments* this week**

* I did a lot of trial and I found the following:
  + 1. I was thinking by maximizing “n” and reduce “s” and “a” I will get the maximum PE but that not the case
    2. Also making s as the maximum is not the correct way
    3. To get the maximum value I need “a” and “s” to be close to certain limit
  + I created my own Mathematica file (I will show it to you tomorrow) and here you go the link:

<https://github.com/mmsultan17/Robotics-Lab/blob/master/Gauss%20Gun_V2.nb>

* + I provide here excel sheet for different values of s,r and n with r=0.001 and L – 0.1:

<https://github.com/mmsultan17/Robotics-Lab/blob/master/Gauss%20Gun.xlsx>

1. **My *Goals* for next week**
   * To continue investigating the relation between a, s, n, r and PE
2. **What I need Dr. Becker to do:**
   1. Questions for the Mathmatica file:

* Does equation includes the barrel part only or does it include the trigger and delivery parts?
  1. Is there any cost restriction for my design?
  2. Since the sphere decides the width of the Gaussian gun can I consider the width also as a restriction for r value?
  3. Want to discuss with him my progress and what is the best way to investigate the values, and am I in the right track or not