Student's Name:	Student's Name:
Lab day & time:	Date:
Measurements and Exp	erimental Errors (M1) - Data Sheet
Activity 3: Average Value and S	andard Deviation (3.5 p
Be sure to fill-in the correct units i	n the space provided: ()
Number of data points $N = 600$	
Average distance to the motion ser	sor $x_{average} = $ ()
Standard deviation $s_x = $	()
It is customary to write our result as:	

 $x = x_{average} \pm s_x$ (units)

Calculate the average distance $x_{average}$ and the standard deviation s_x of the distance measurements. Make sure to use "STDEV" Excel function - standard deviation based on a sample.

 $x = x_{average} \pm s_x = _ ()$

Students are expected to **complete the lab report and return it to the lab TA** before the end of the scheduled lab time.