ENGR 13300 Fall 2020 Name Purdue login Name of Partner Purdue login of Partner Section number Assignment

Ex3 Ind Task 3

1/We have not used material obtained from any other unauthorized source, either modified or unmodified. Neither have I/we provided access to my/our work to another. The solution I/we am/are submitting is my/our own original work.

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## we are to calculate the descriptive statistics of the data given and create a histogram.

=MIN(A16:A115) =MAX(A16:A115) =F17-F16 =AVERAGE(A16:A115) =MCDE(A16:A115) =VAR(A16:A115) =VAR(A16:A115)

Calculation Section:
min
max
range
mean
median
mode
variance
SE
Histogram Calculation
number of bins
width of bins



If the required minimum shear strength is 780 kip per square inch (si), should the company buy the welding robot? Justify your answer using the data.

Value in megapascals/6.89475728 = value in ksl. If we convert cell F16 to ksl, it would be 772.9 ksl. So no, I would recommend the company to not buy the robot because the minimum shear strength of this robot is 772.9 ksl and that does not meet the required minimum.