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Part h) This step is educational but will not be graded. Collect two to five data points, entering data into the following table. True position, t_i, is determined by reading the position of the hair-line on the ruler. The measured position, m_i, is determined by using your device. The average error is defined as the average difference between truth and measurement, taken as absolute values. Because of the difficulties in calibration we expect the average error to be around 0.1 cm on the real board.

LAB 14 MEASUREMENT ACCURACY

This is an optional part of Lab 14. Collect two to five measurements with your Lab 14 distance measurement system. In the left column place the true distances as determined by your eyes looking at the cursor and the ruler. In the right column place the measured distances as determined by your system. When you have entered at least two sets of data, click the "Calculate" button.

True values   Measured values   Errors

truth 1	measured 1
truth 2	measured 2
truth 3	measured 3
truth 4	measured 4
truth 5	measured 5

Calculate

The number of data sets is
The maximum error is
The average error is

Reset

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