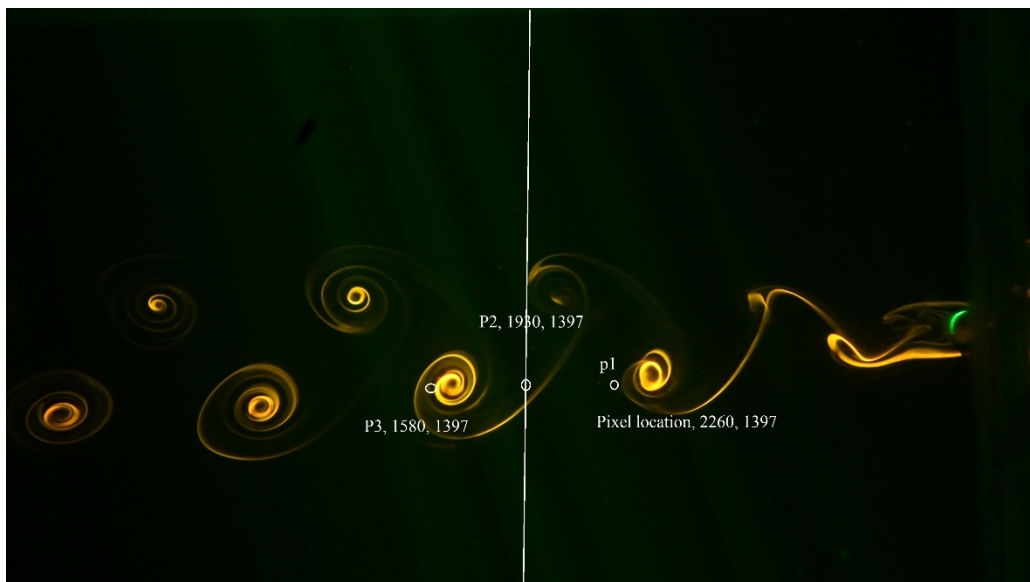Assignment 1

Measurements and Data Analysis: AE-669

1. Find the attached flow visualization file (movie file) which is acquired at 30 Hz (frame per second). Extract the individual image files and show six consecutive images in terms of greyscale contours from this movie.

2. Plot an average and root-mean-squared intensity (greyscale values) profiles along the white vertical line (middle of the image) as shown in the figure below.

3. Plot the time series of the image intensity (greyscale values) at points P1, P2, and P3.