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# TOF LiDAR system signal processing for static and dynamic platform

# Written by Hosna Sultana

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These MATLAB codes were created for signal processing of the simple timestamp data (TDC7200 time, and the number of photons returned from a Single-Photon Counting Module (SPCM) to plot the histogram and find the range. The static (Lidar and the targets are static) runs can be analyzed by “LidarDist\_Static\_wrap.m” and find the range and resolution between the targets. The Dynamic platform runs (LiDAR is slowly moving) can be segmented into small time intervals and find the target range by the “Lidar\_dist\_dynamic.m”. The “Simple homemade TOF LiDAR testing.pptx” presents one visualization of the dynamic run.