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DESCRIPTION

The folder contains the MATLAB and Simulink files that are used in the Controls Tech Talk titled "Understanding Model Predictive Control, Part 6: How To Design An MPC Controller With Simulink And Model Predictive Control Toolbox".

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The folder contains the following items:

1-'AutonomousSteeringSystem.slx': This is the Simulink model used in the video.

2-'Meldas\_library.slx': This is the custom library used in the video.

3-'Car.jpg': This is the image used for the mask of the Plant block that can be found in the custom library.

4-'Reference.jpg': This is the image used for the mask of the Reference block that can be found in the custom library.

5-'Params.mat': This mat-file includes all the parameters that are needed to run the Simulink model.

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INSTRUCTION TO RUN THE SIMULINK MODEL

Download the folder titled "How To Design An MPC Controller With Simulink And Model Predictive Control Toolbox" to your computer and set it as your MATLAB path. Double click the 'Param.mat' file to load all the parameters needed to run the Simulink model. Open and run "AutonomousSteeringSystem.slx" model.