- First run the file initial.m which should contain the initial condition data that you want to apply to the initial condition of your simulation. Run the "runfirst.MDL" file by applying the same initial conditions to it. Dot for get to specify the final boundary conditions in the root_path.m file.
- This will successfully create an array containing all the data on your initial run which would be required by the memory block and the rate transition block in the aerosonde_controlled model. Therefore after successfully running the run_first file run the Aerosonde controlled file following the instructions given regarding the Aerosonde model by Dr J.F.Whidborne.
- The cons_path function file contains the constraints that are applied on the optimizer and the obs_path file contains the cost function applied on the optimizer.
- The post process_ path file is used to separate the array into data columns which is used at the end of the root_path file to manipulate the output data from the trajectory generator.
- It will contain the position as well as the controls obtain via inverse dynamics.
- The aersosnde_controlled model contains the trajectory generator block connected to the flight controller.
- The file also contains a point mass model which contains the same trajectory generator block as the Aersonde model.