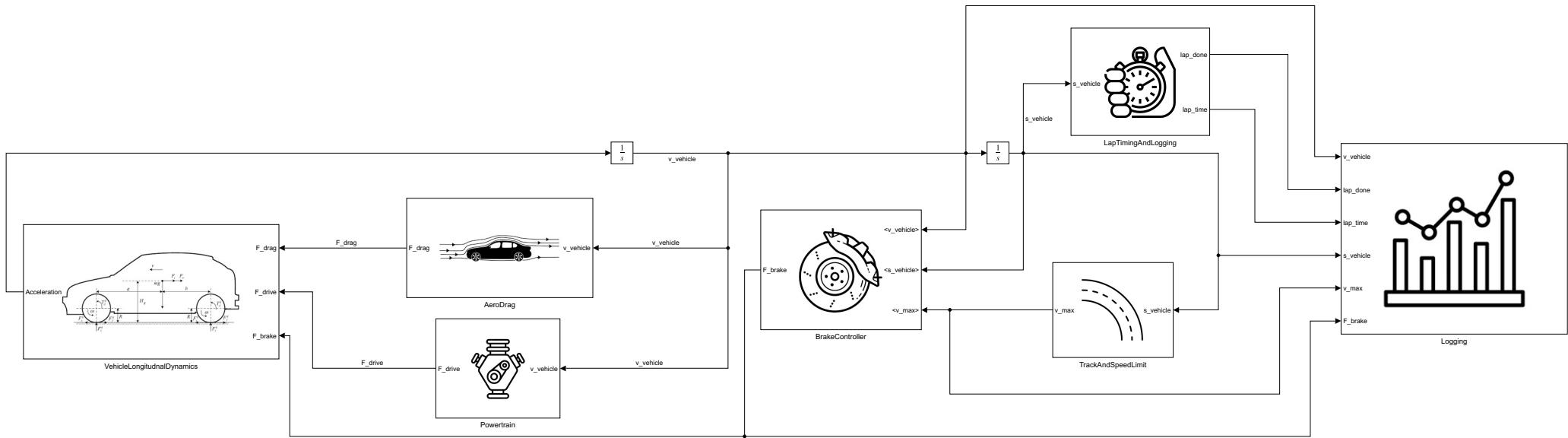


**Lap Time Simulation with Brake and Gearbox Control**  
**Longitudinal Vehicle Dynamics Model (MATLAB / Simulink)**



**Modeling, Control & Simulation Project | 2026**