

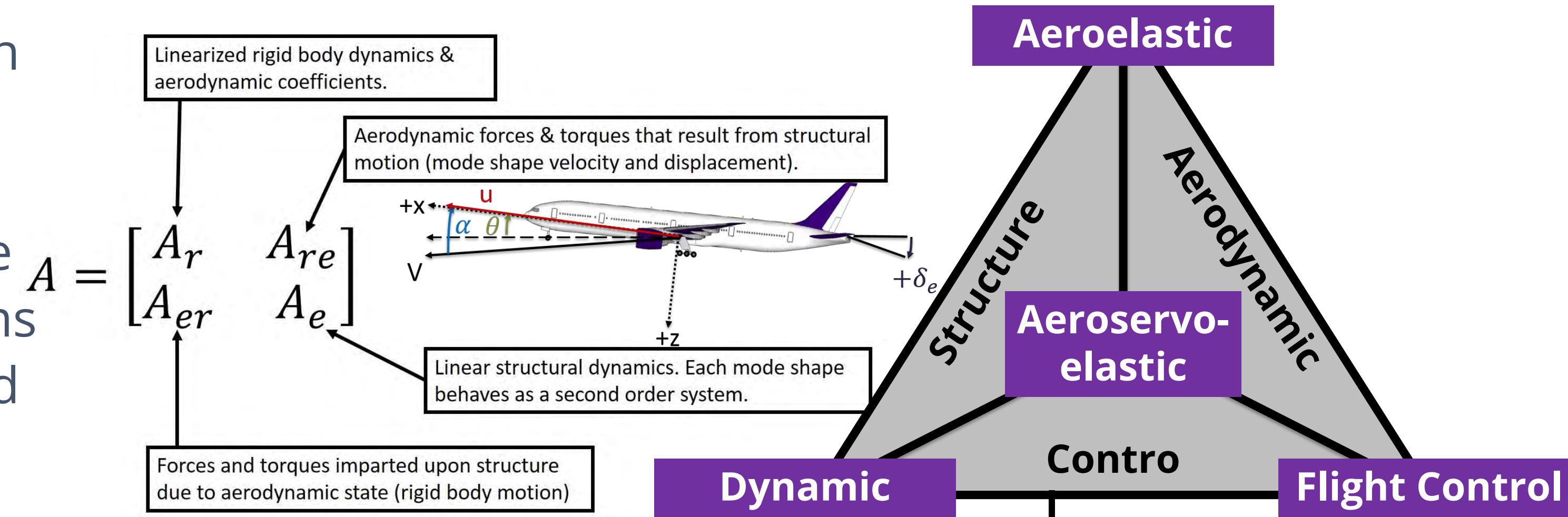
W Wind Tunnel Aeroservoelasticity

Active Gust Load Alleviation and Flutter Suppression

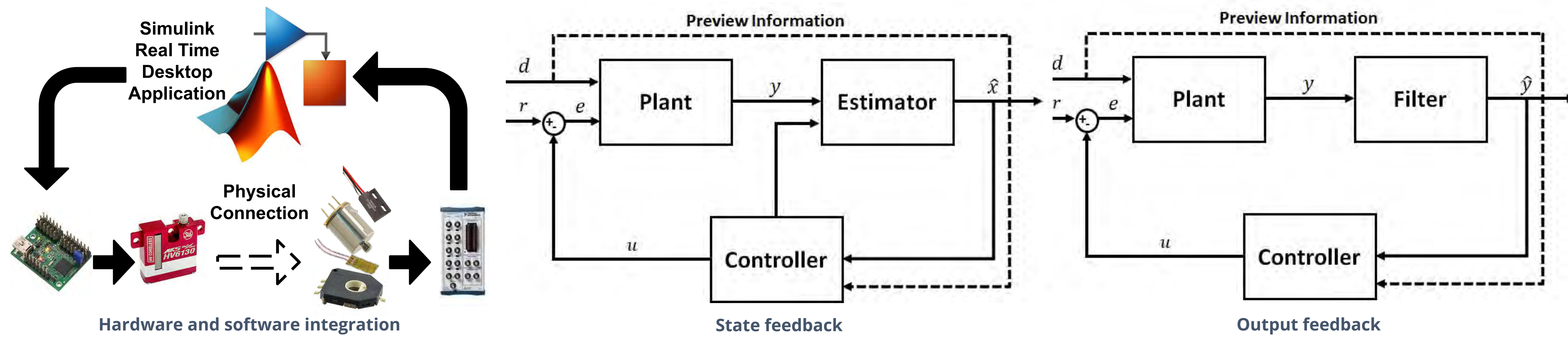
STUDENT: Kuang-Ying "Eddie" Ting

Wind Tunnel Aeroservoelasticity

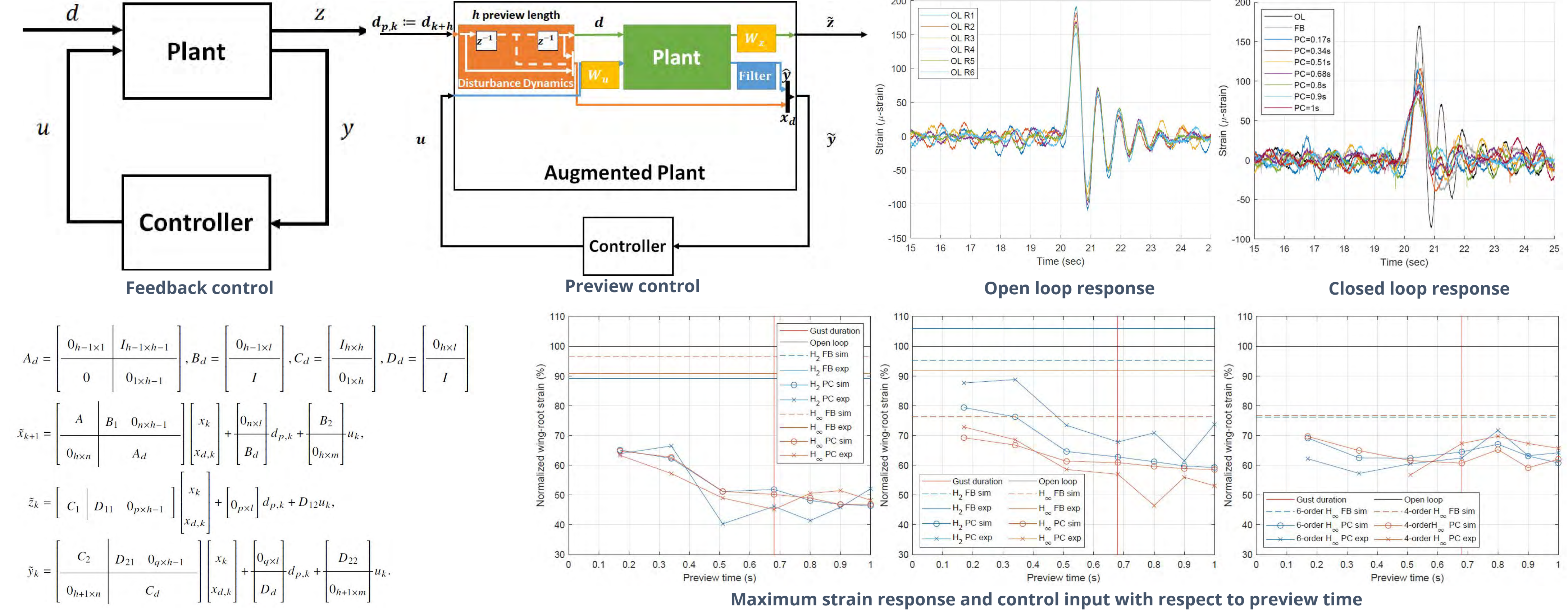
Aeroelasticity is interaction between structure and aerodynamics. The flexible airframe due to weight constraints and the flow around the vehicle leads to aeroelastic problems such as gust loads, ride comfort and flutter. Incorporating active control becomes aeroservoelasticity.



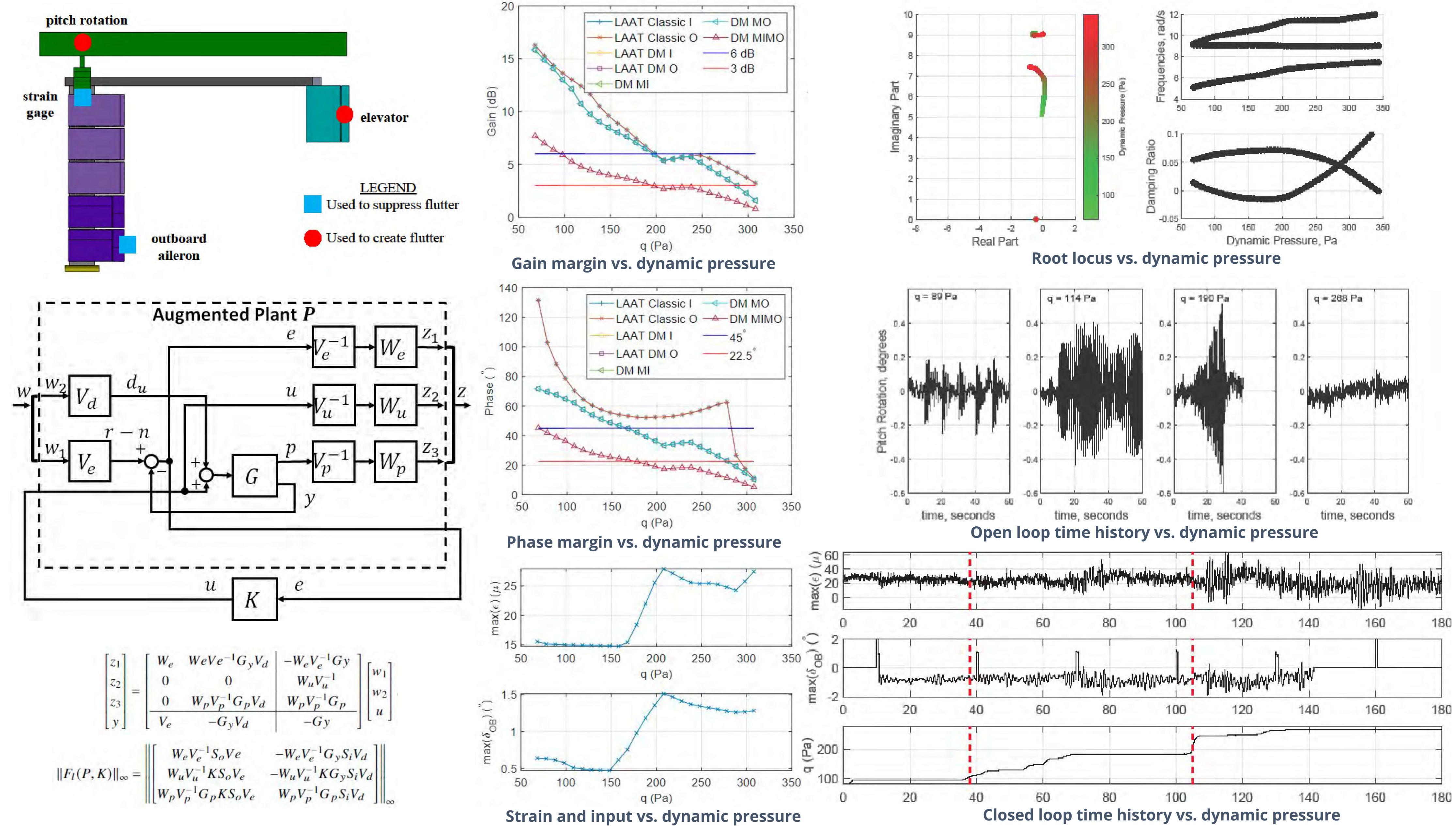
Hardware-In-The-Loop



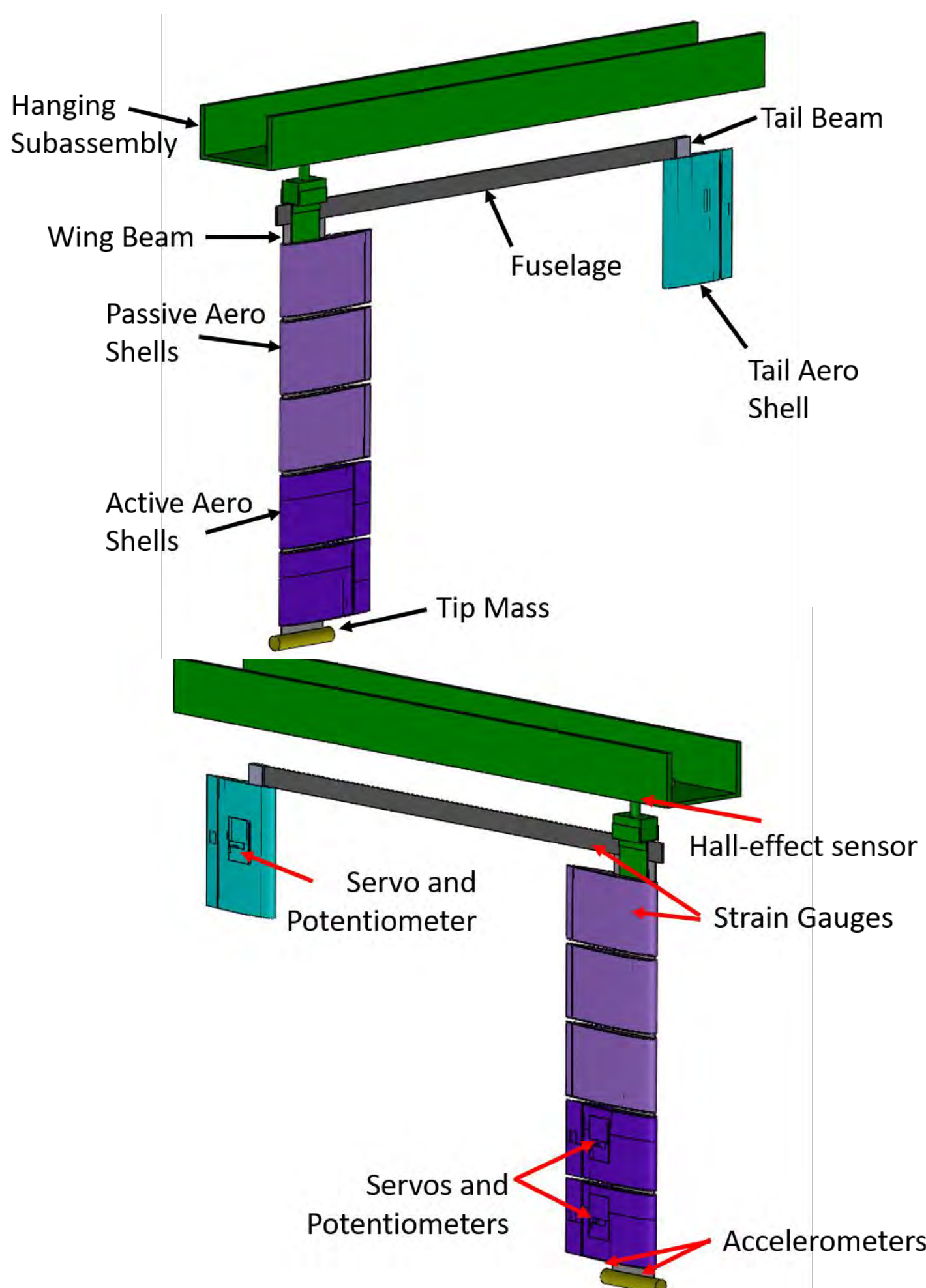
Gust Load Alleviation (GLA)



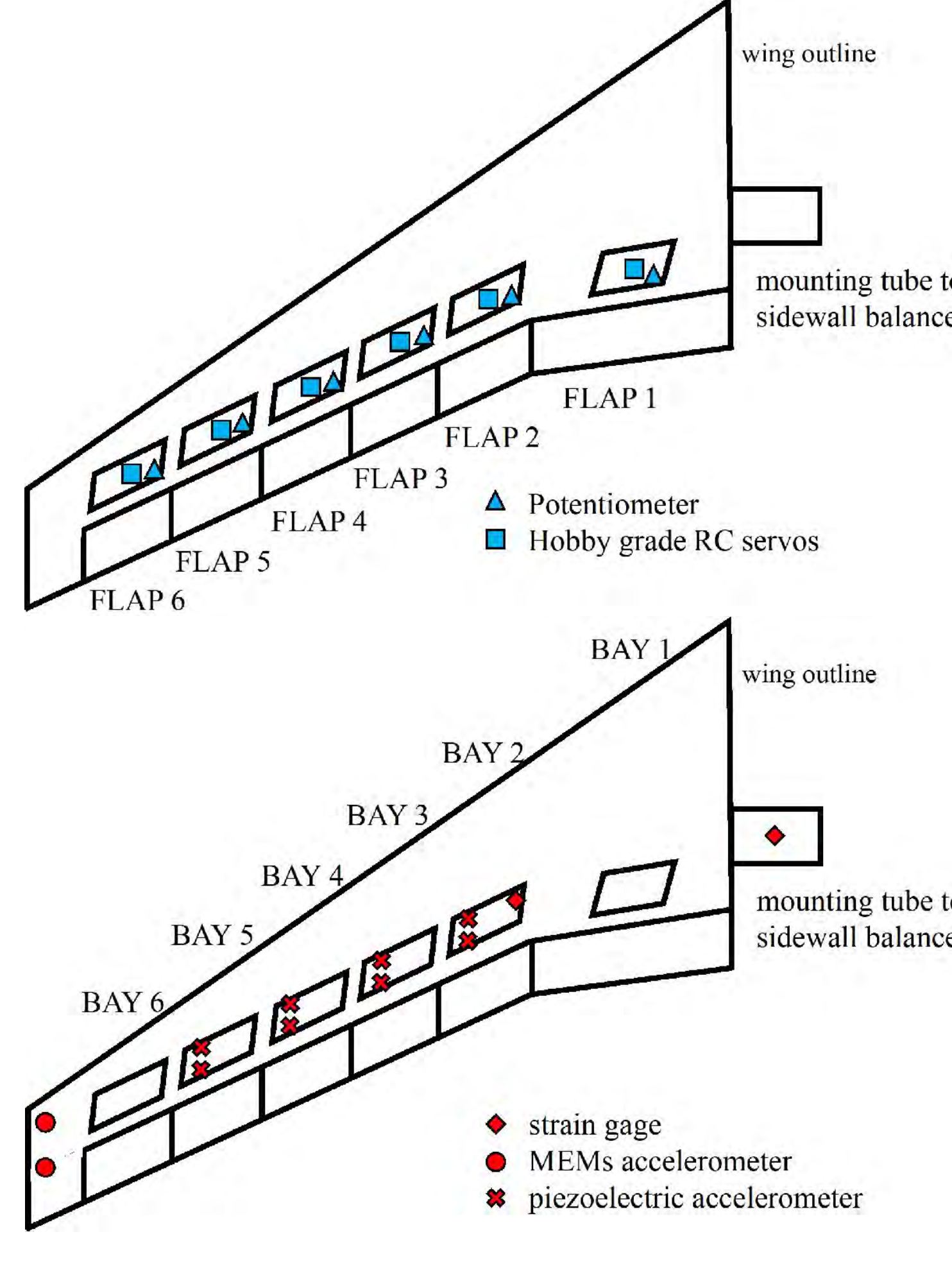
Active Flutter Suppression (AFS)



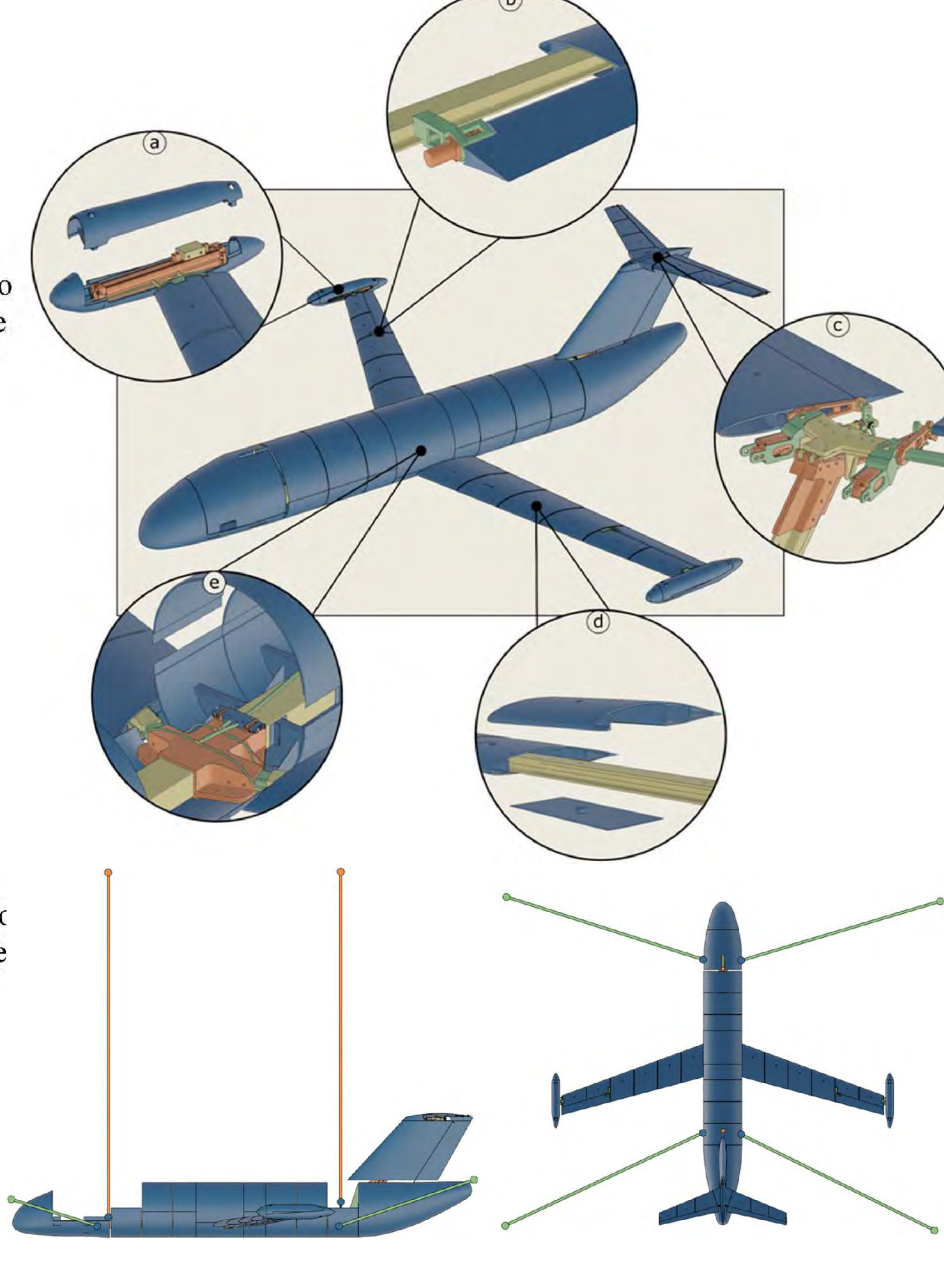
MARGE



LARGE



POLIMI



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