

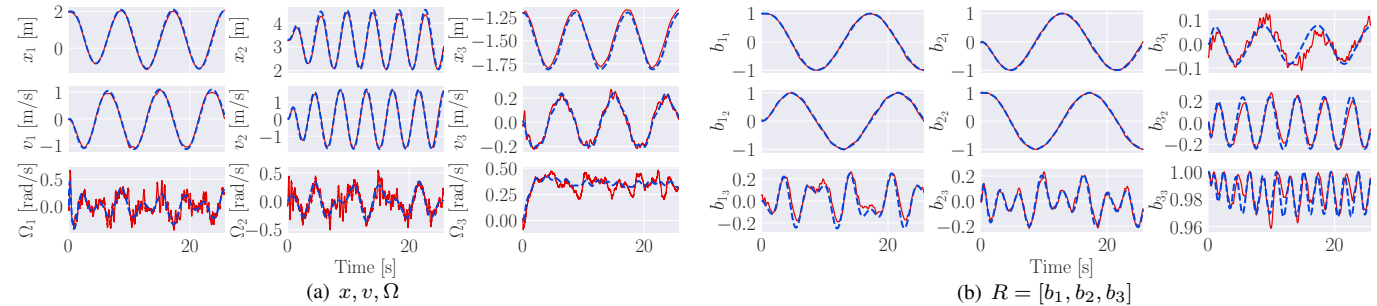


Fig. 8. Validation of zero-shot sim-to-real transfer through comparison of simulated (blue dotted lines) and actual (red lines) flight trajectories. Subfigures (a) show position, velocity, and angular velocity trajectories, while subfigures (b) depict the nine elements of attitude R .