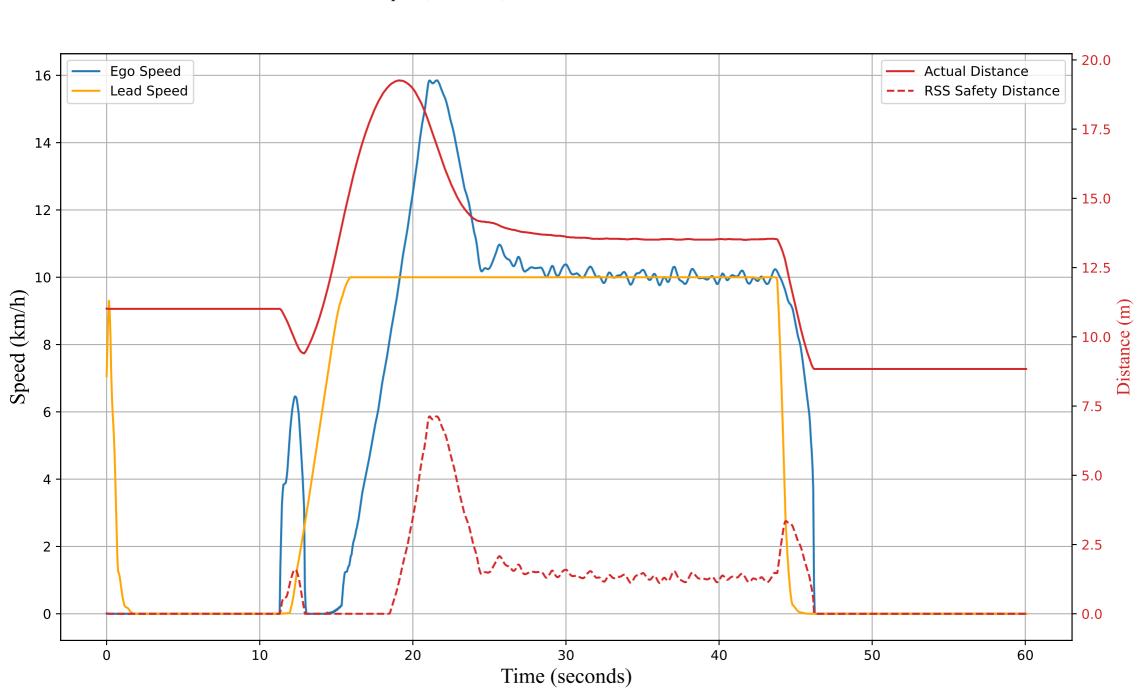
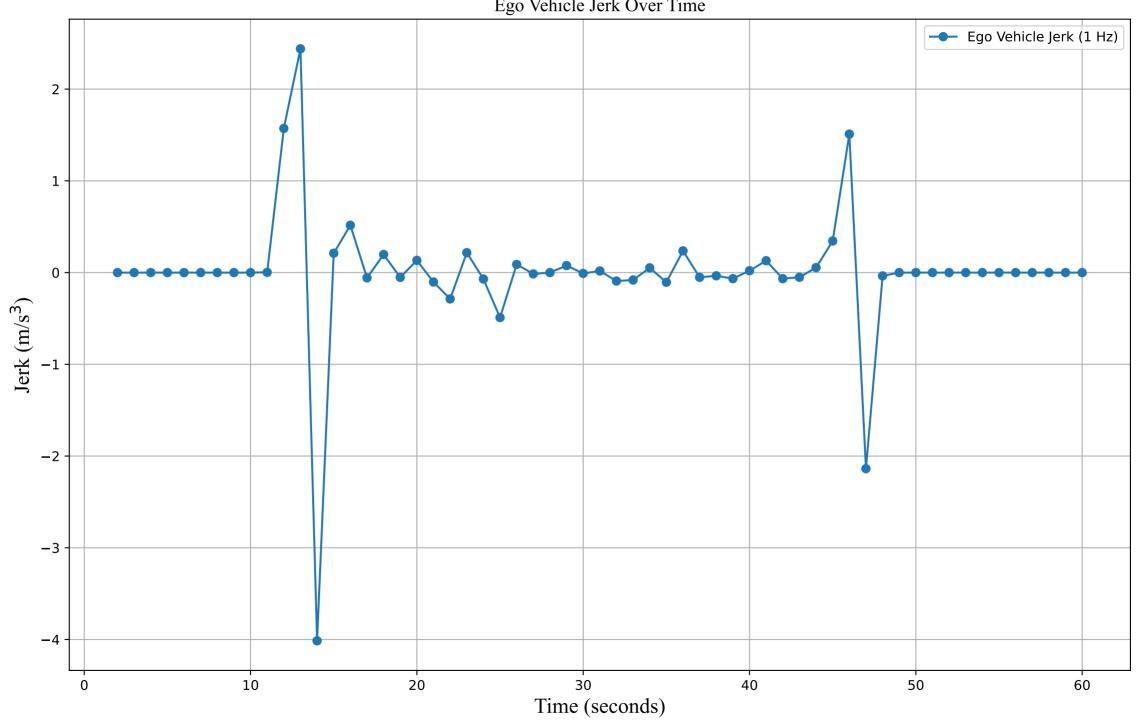
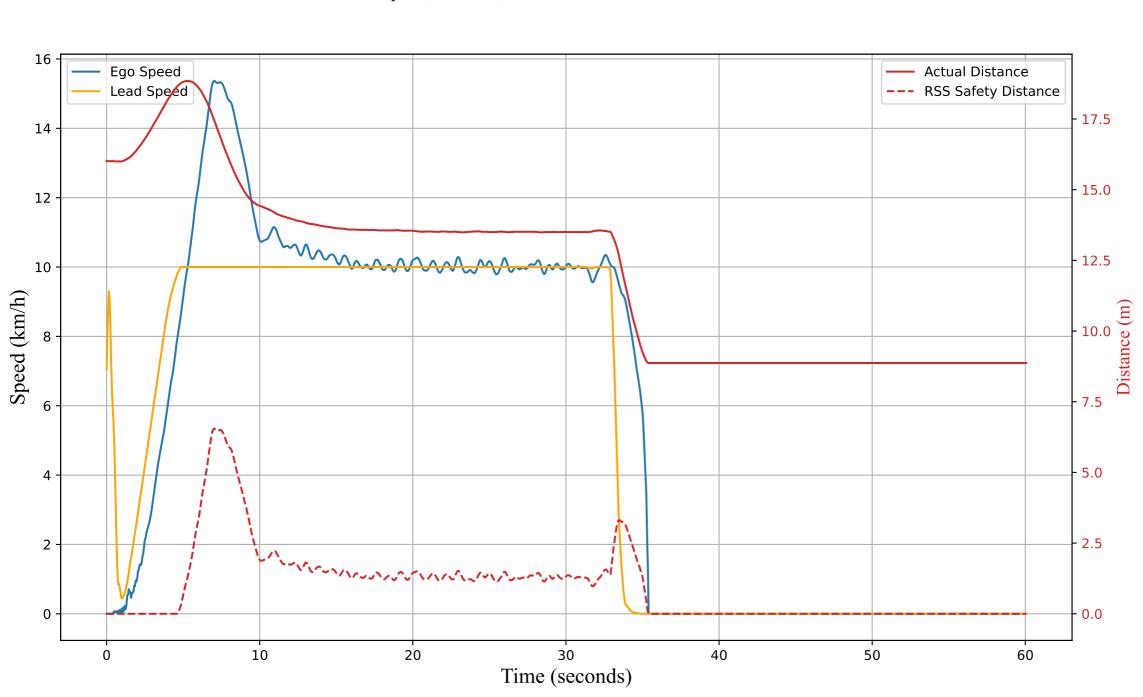
Case 1:
$$(V_r > V_f)$$

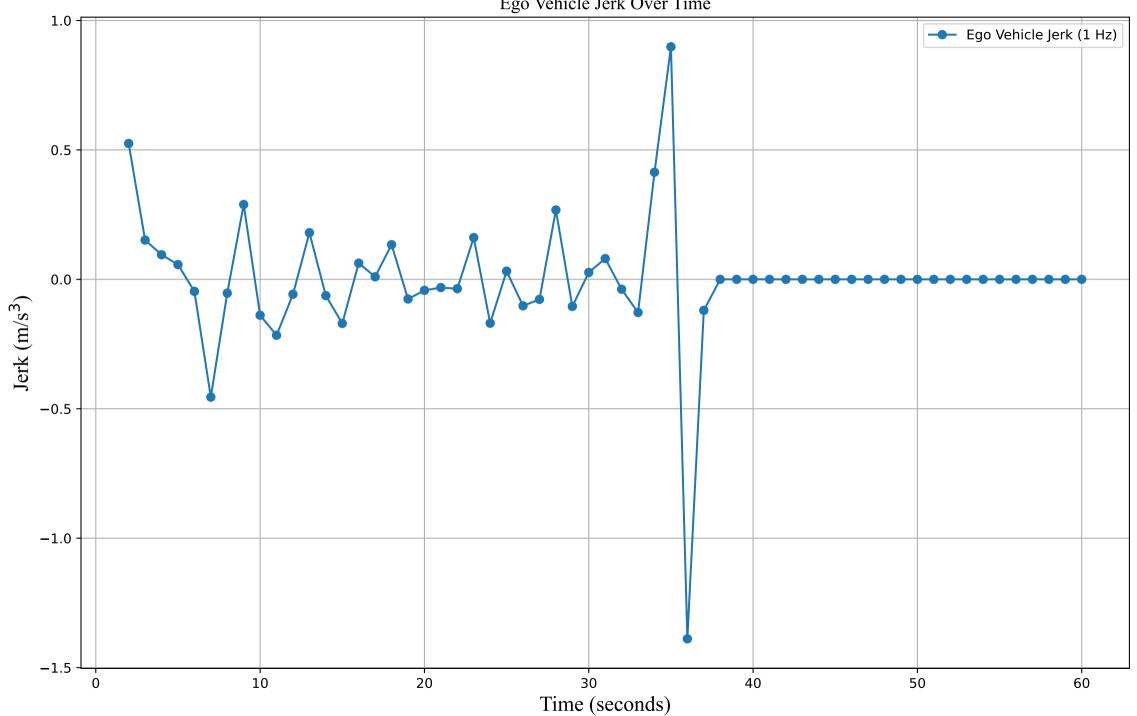


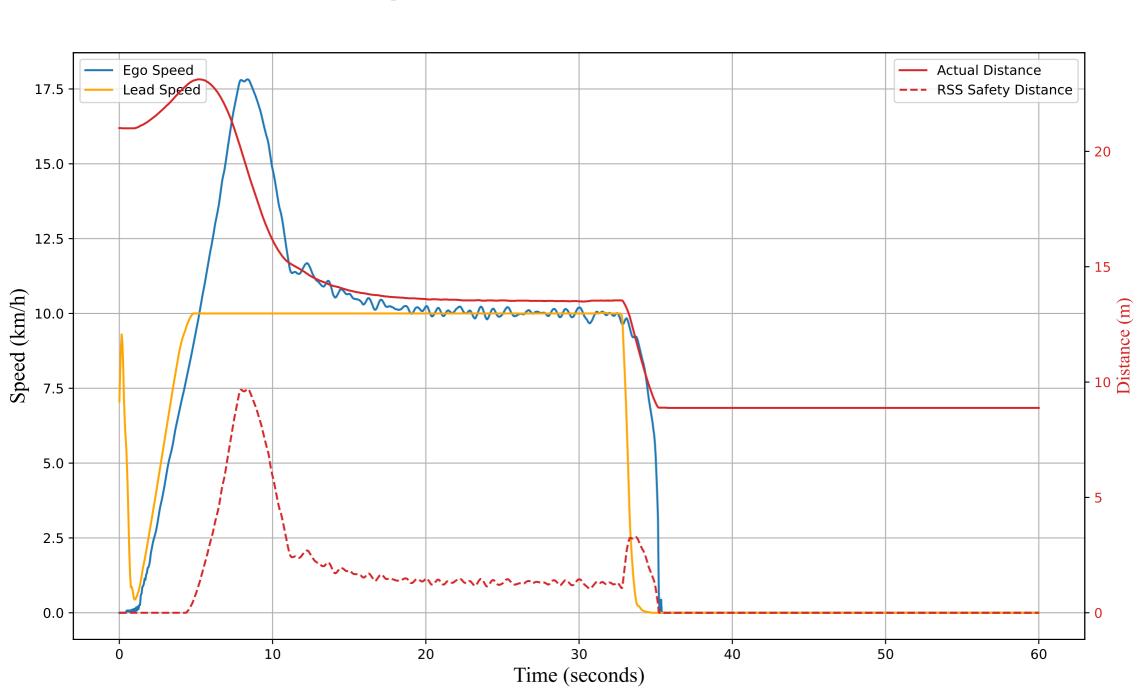
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=10 m Ego Vehicle Jerk Over Time



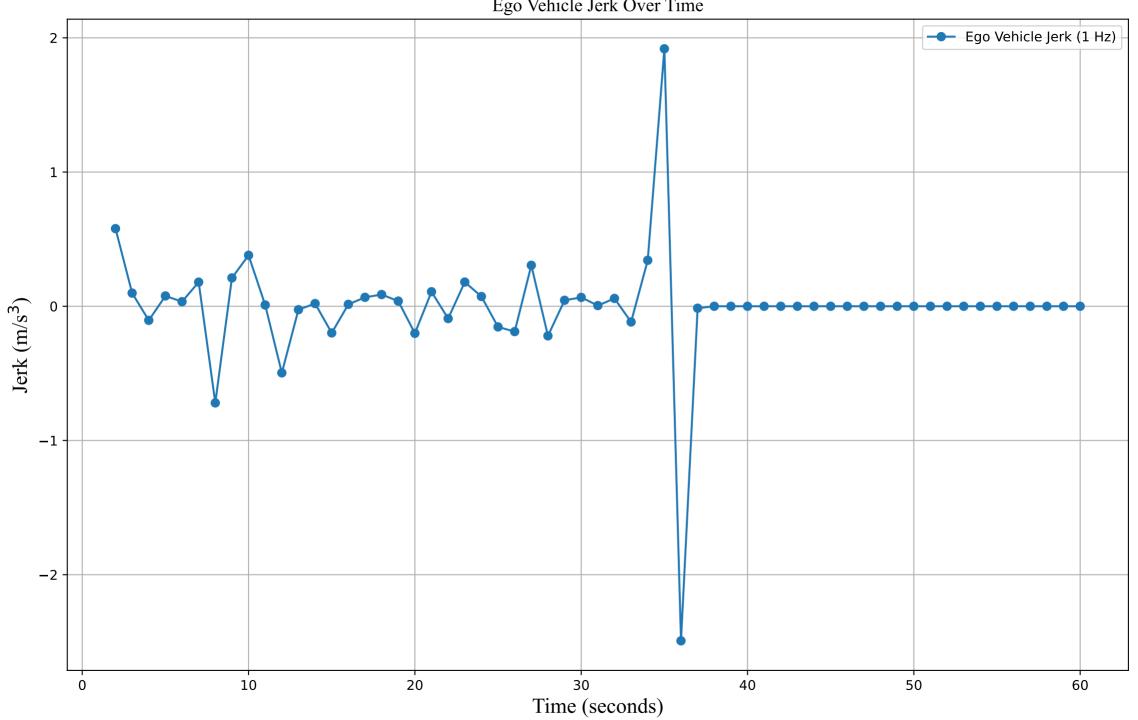


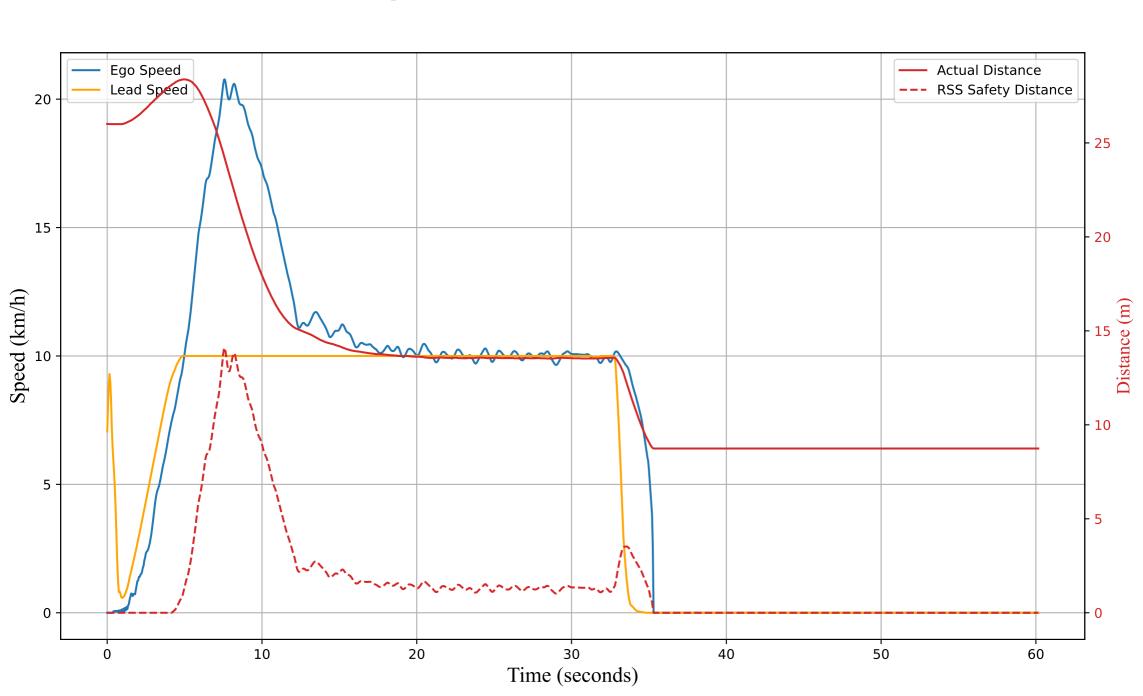
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



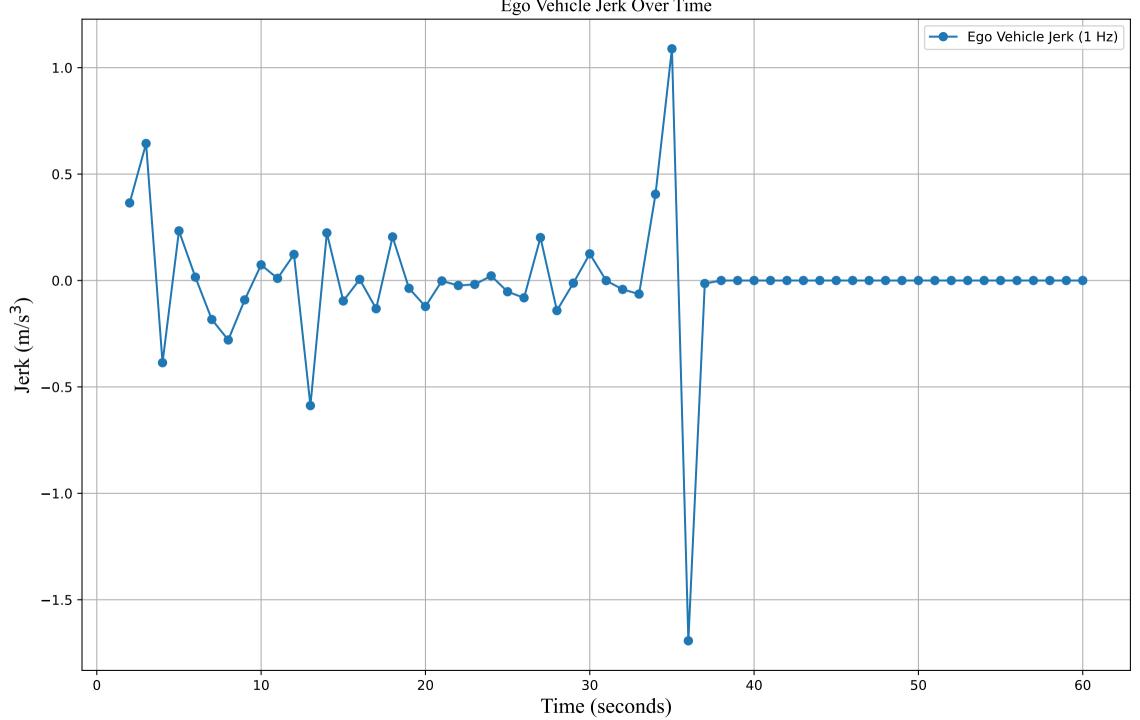


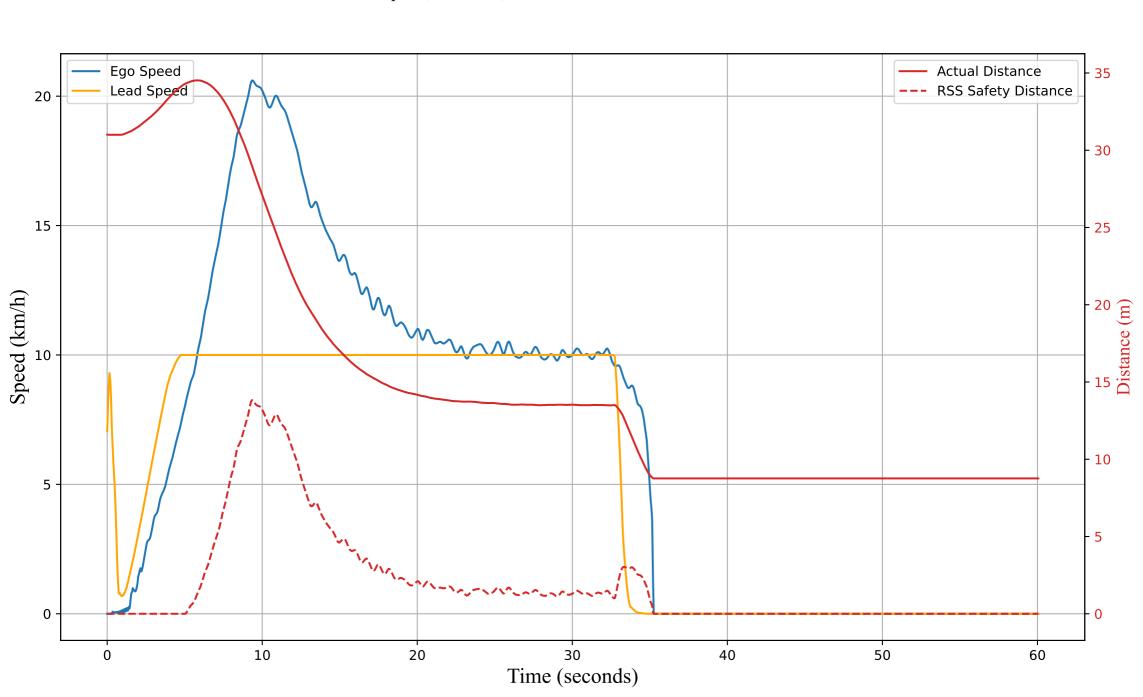
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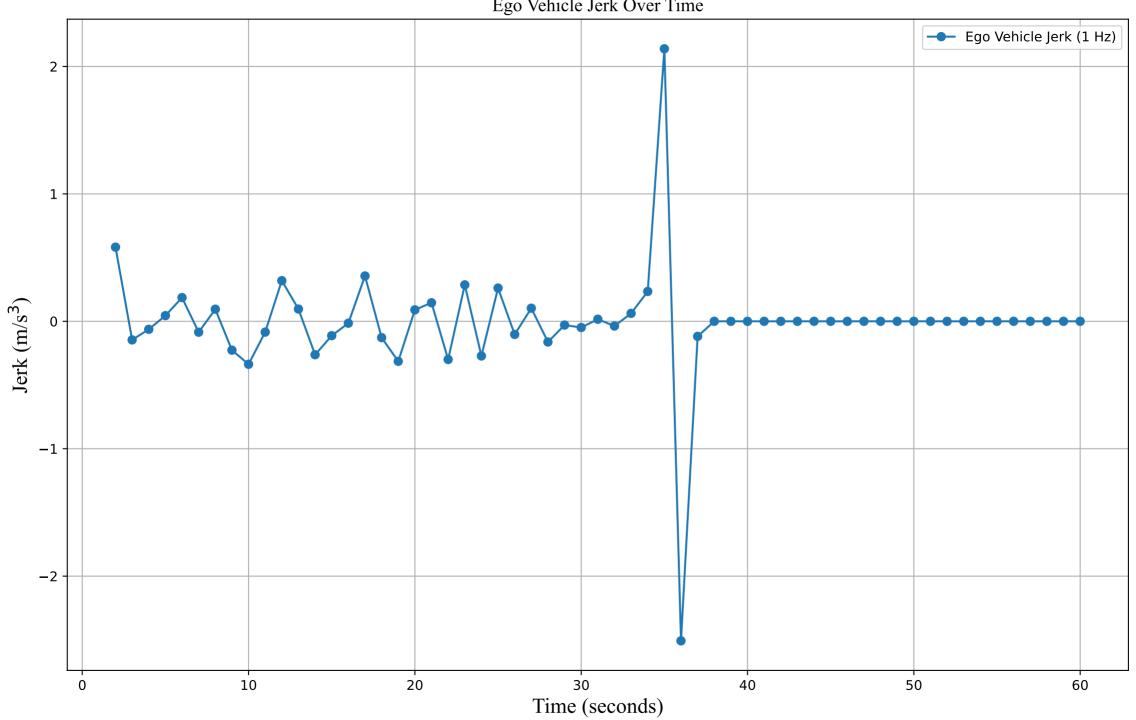


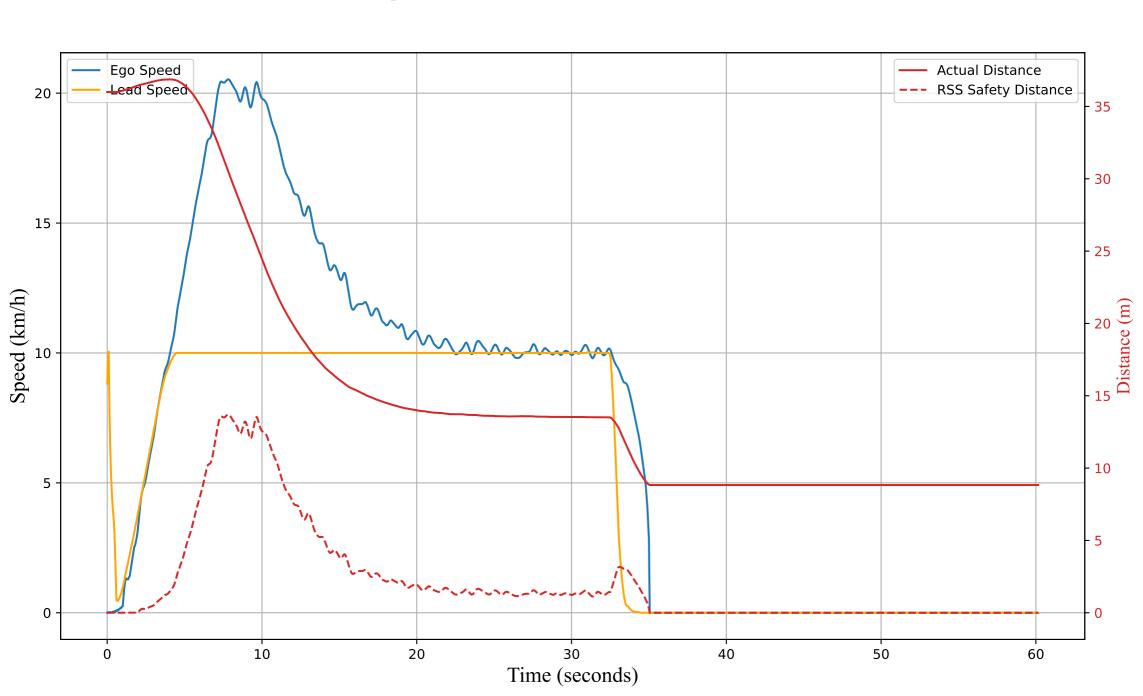
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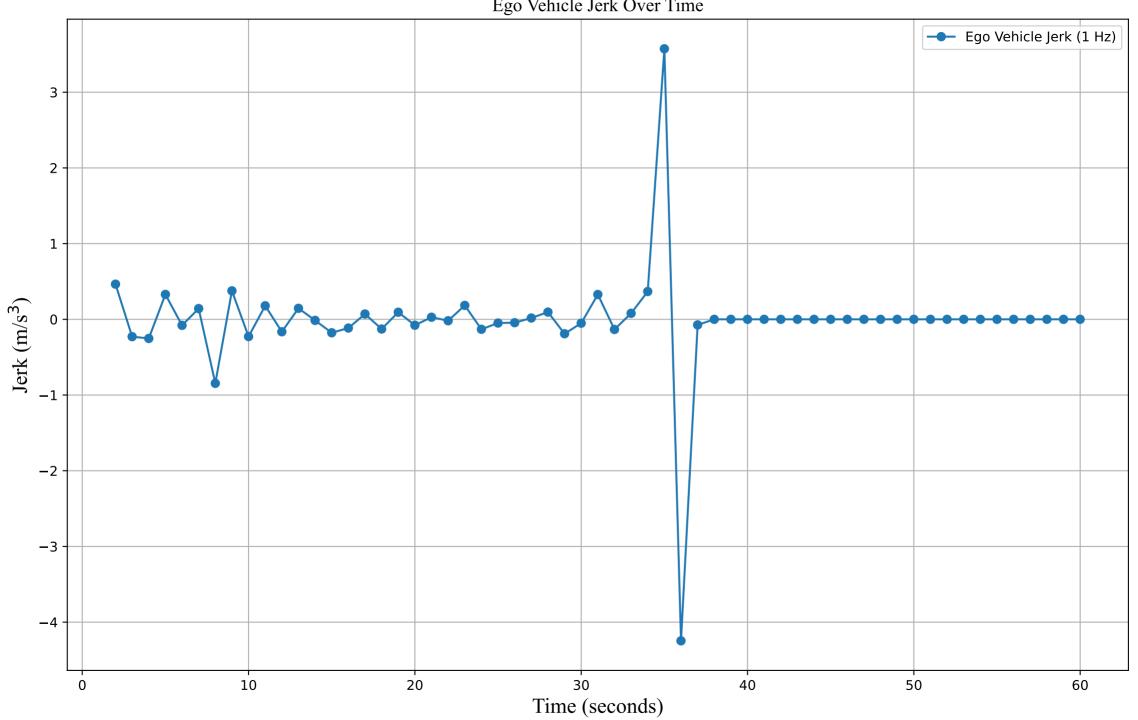


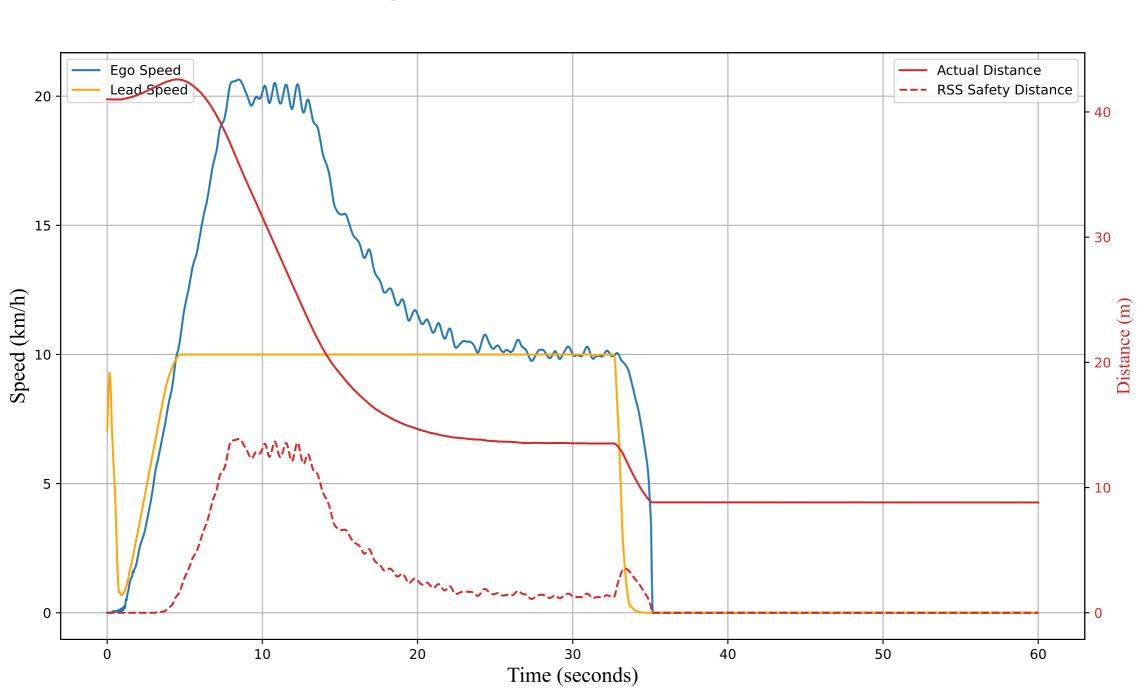
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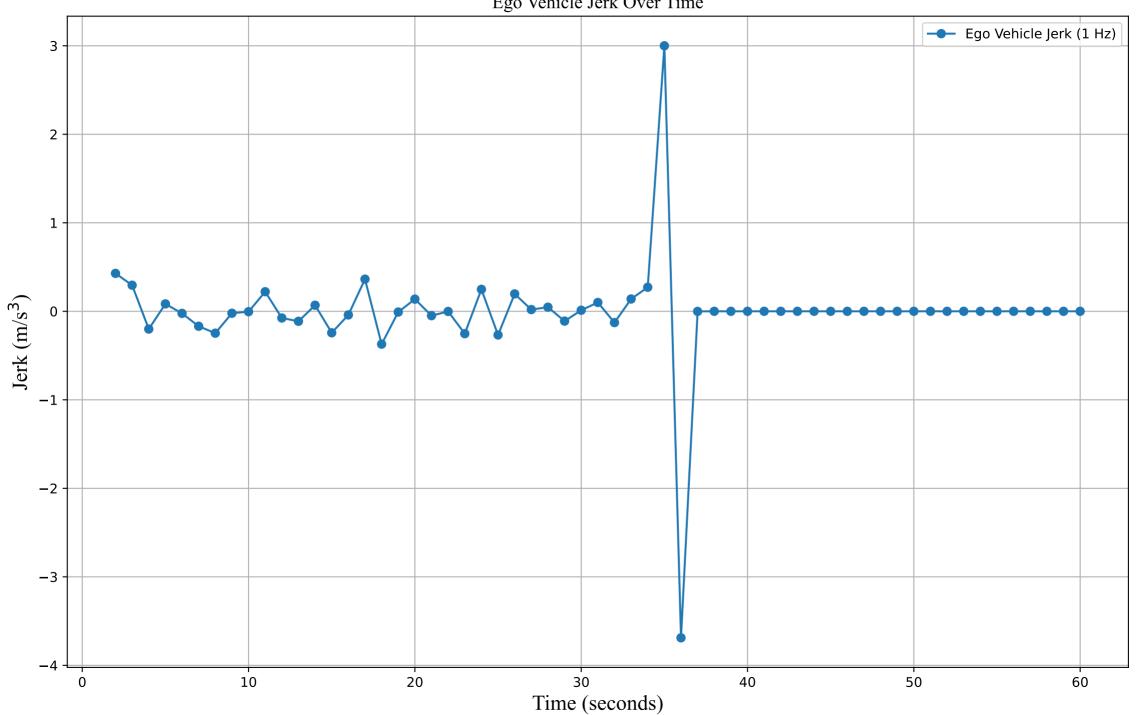


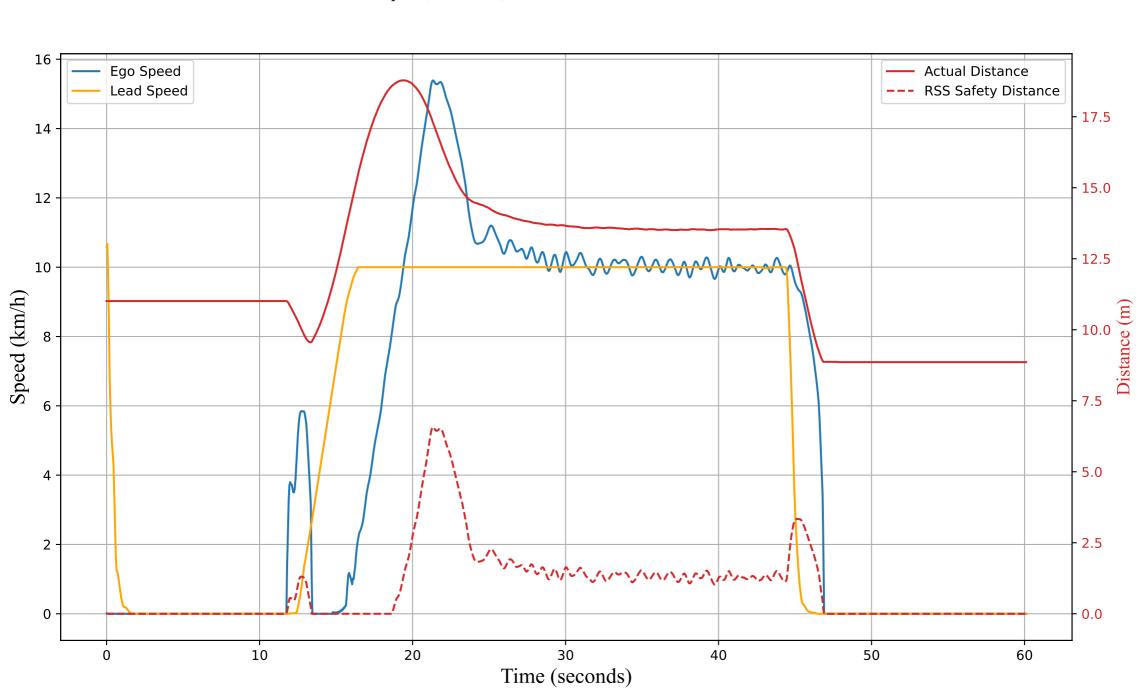
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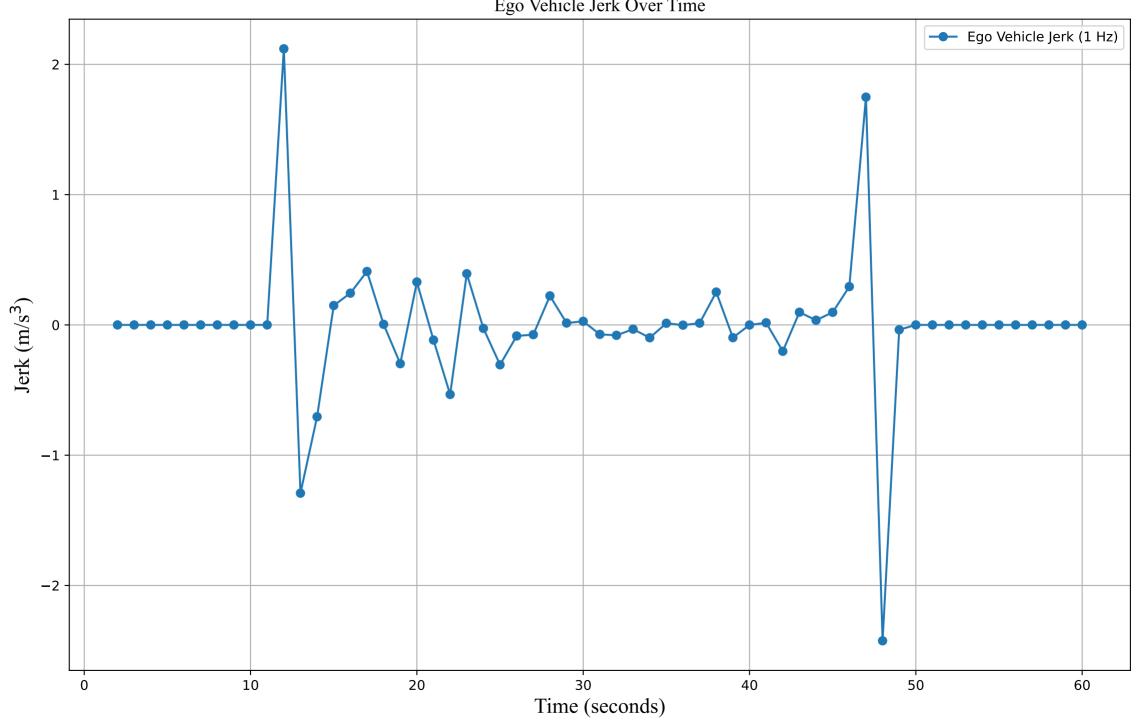


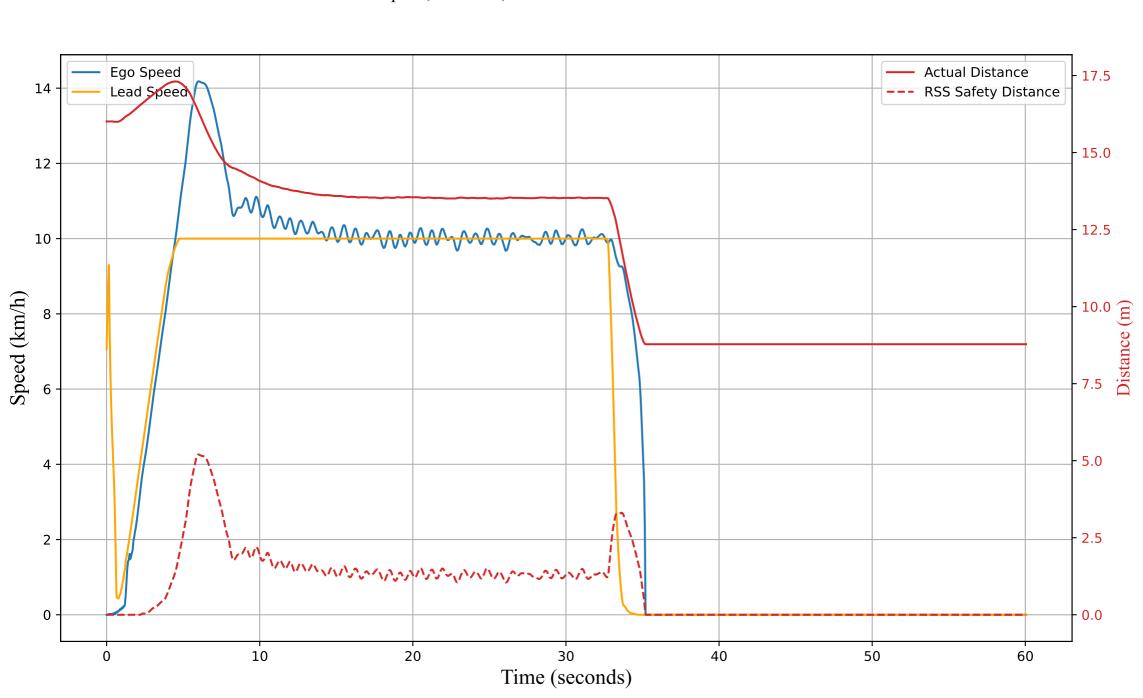
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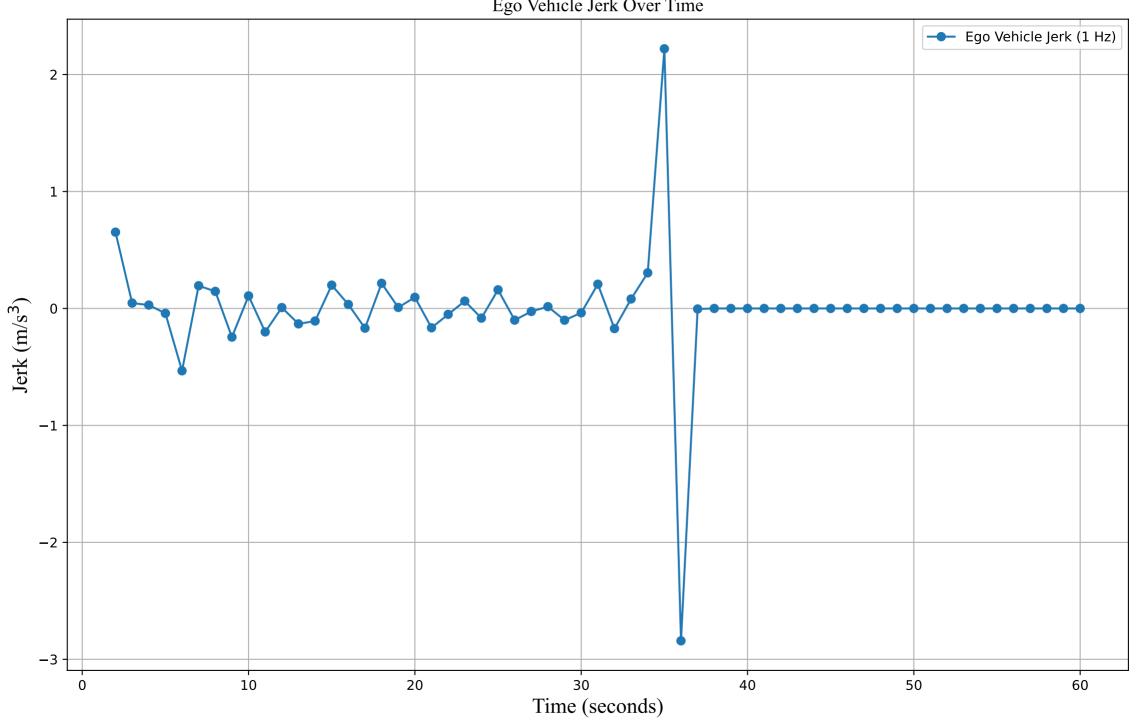


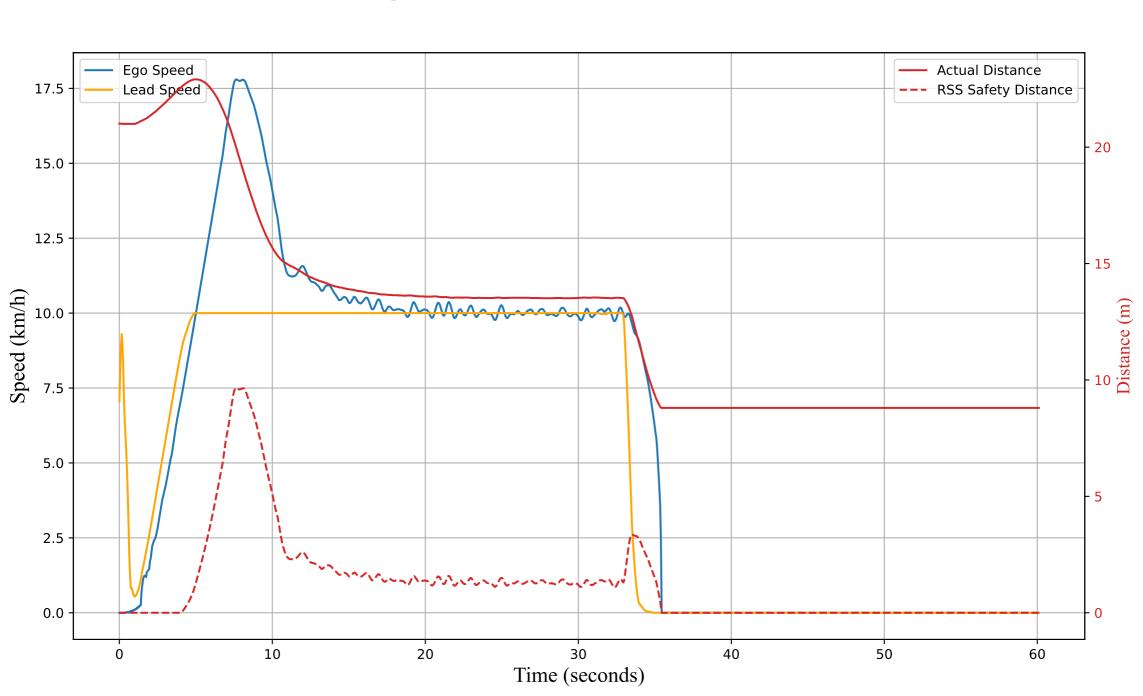
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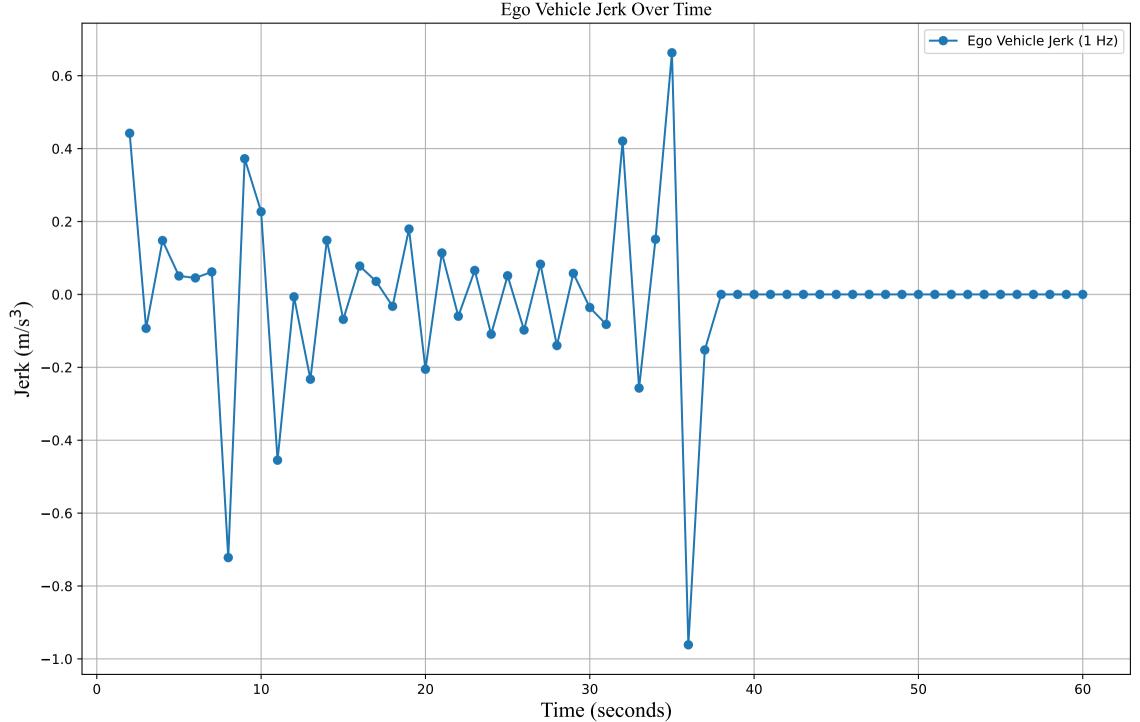


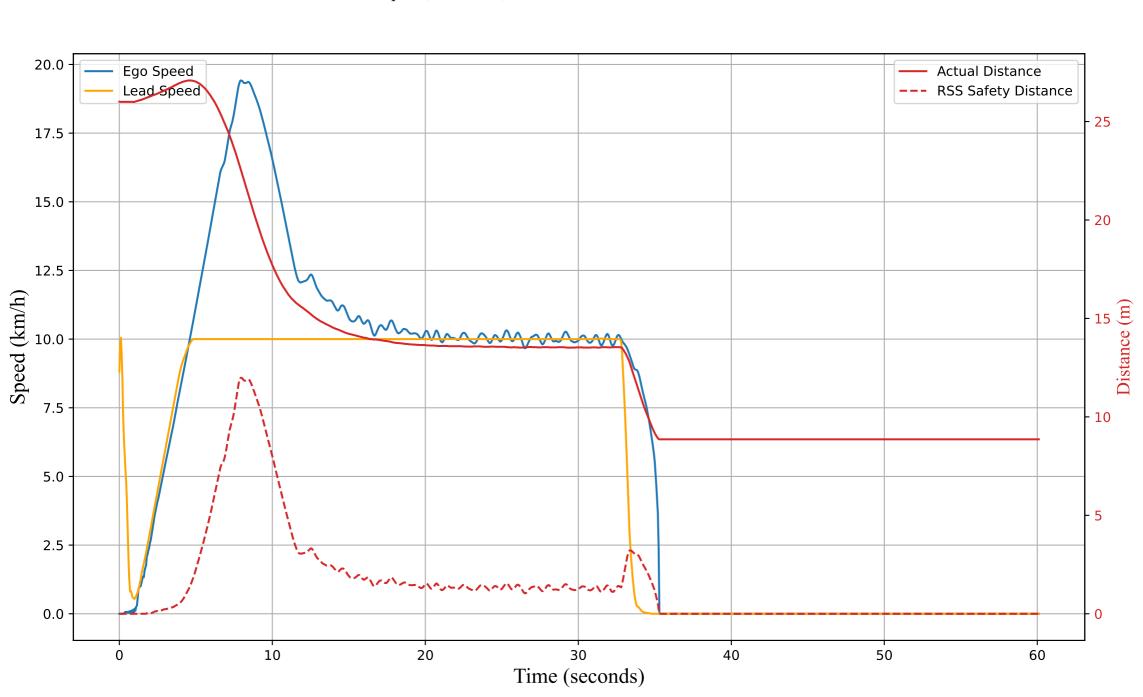
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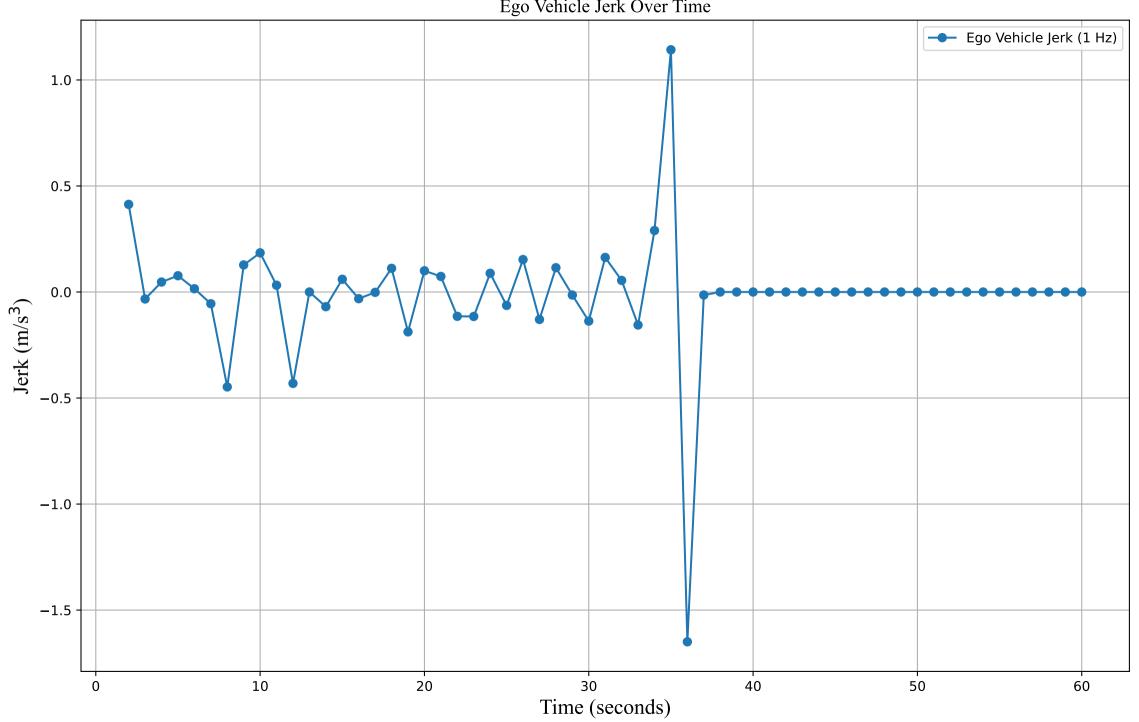


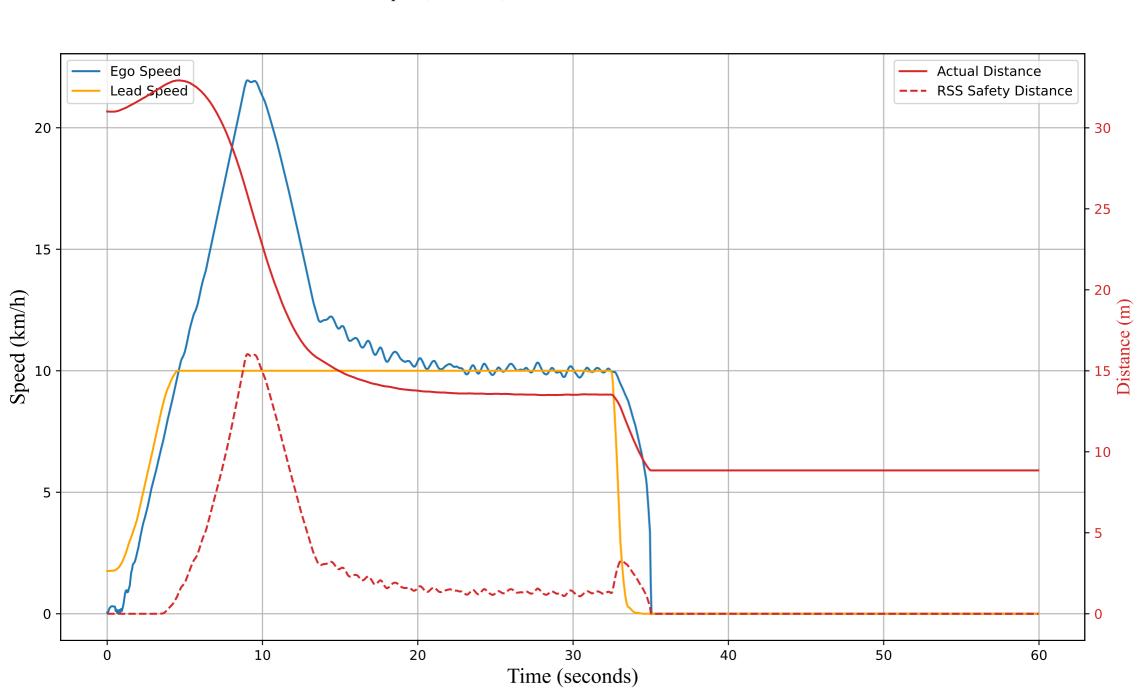
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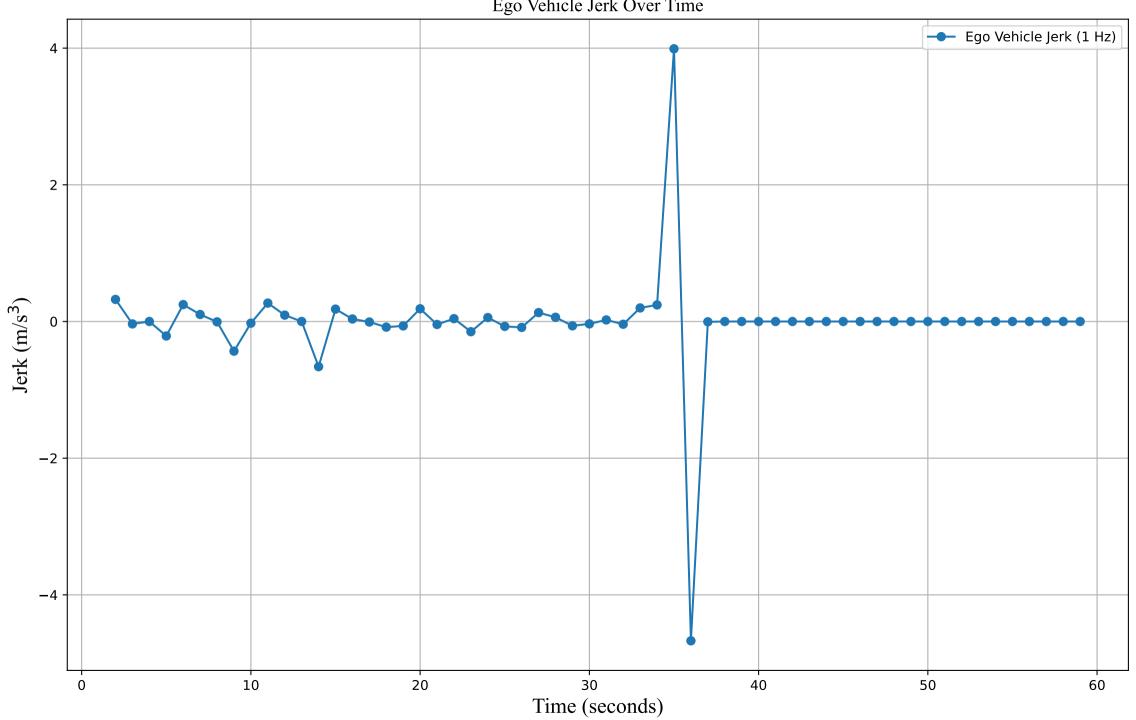


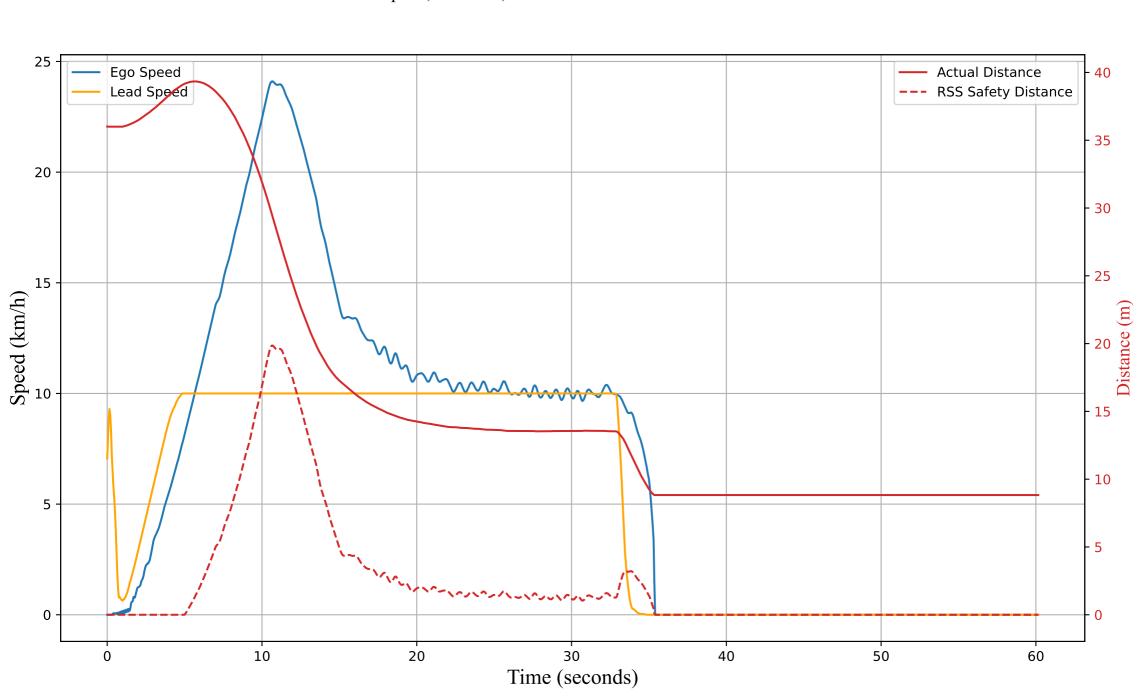
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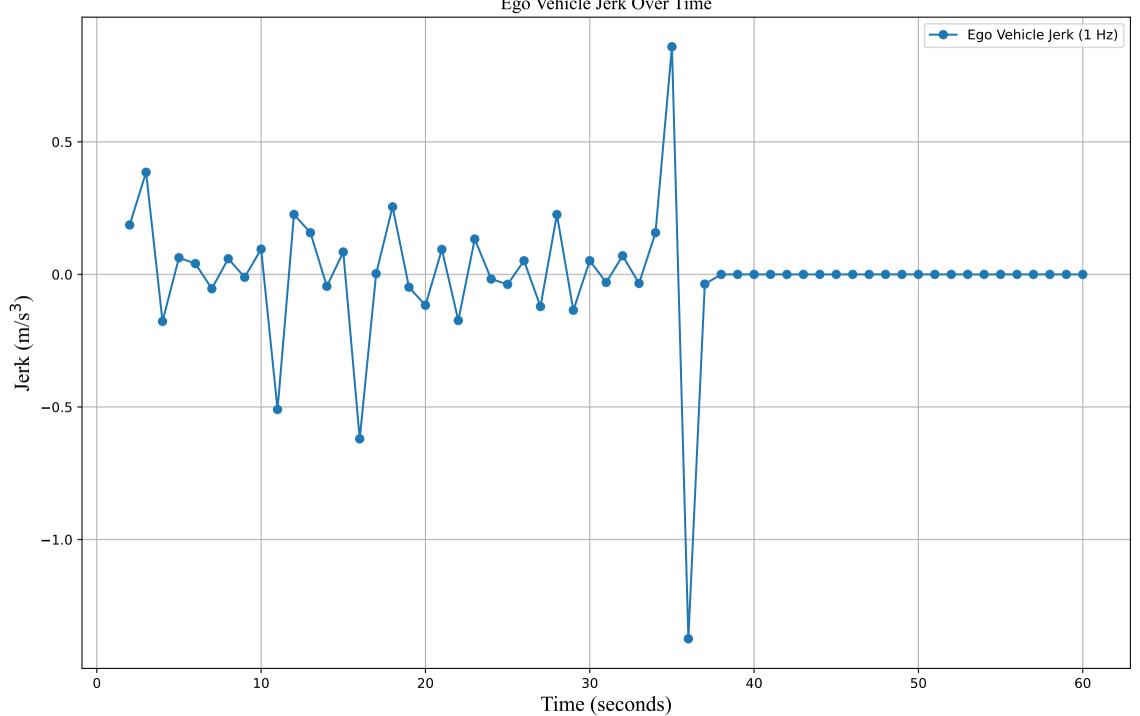


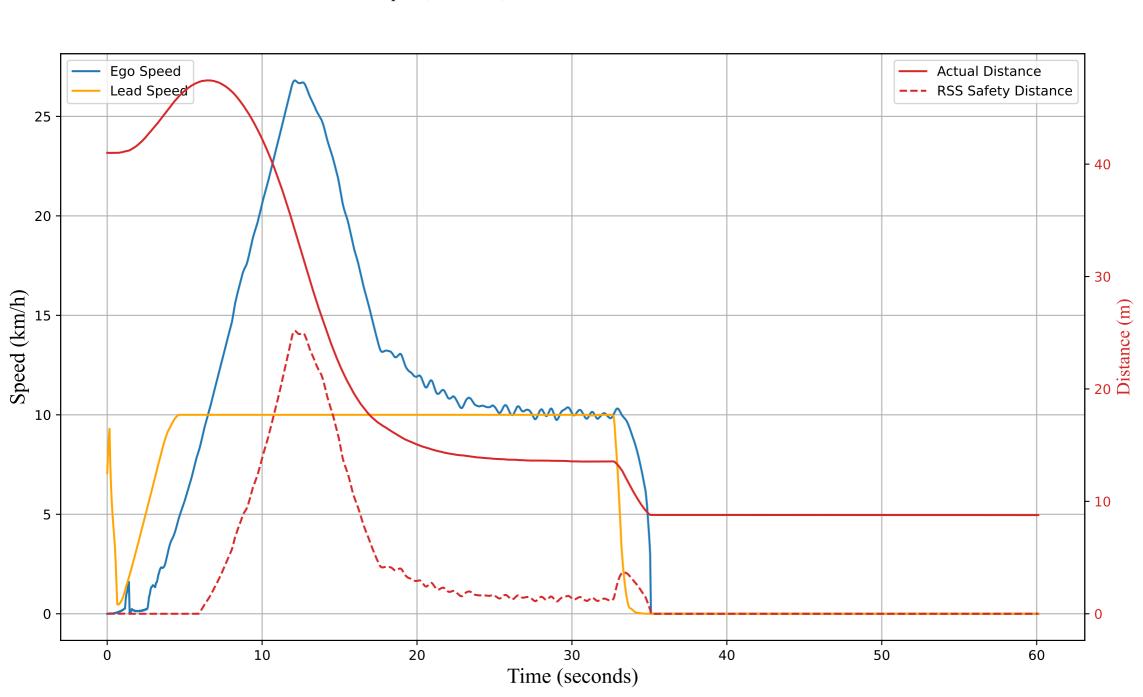
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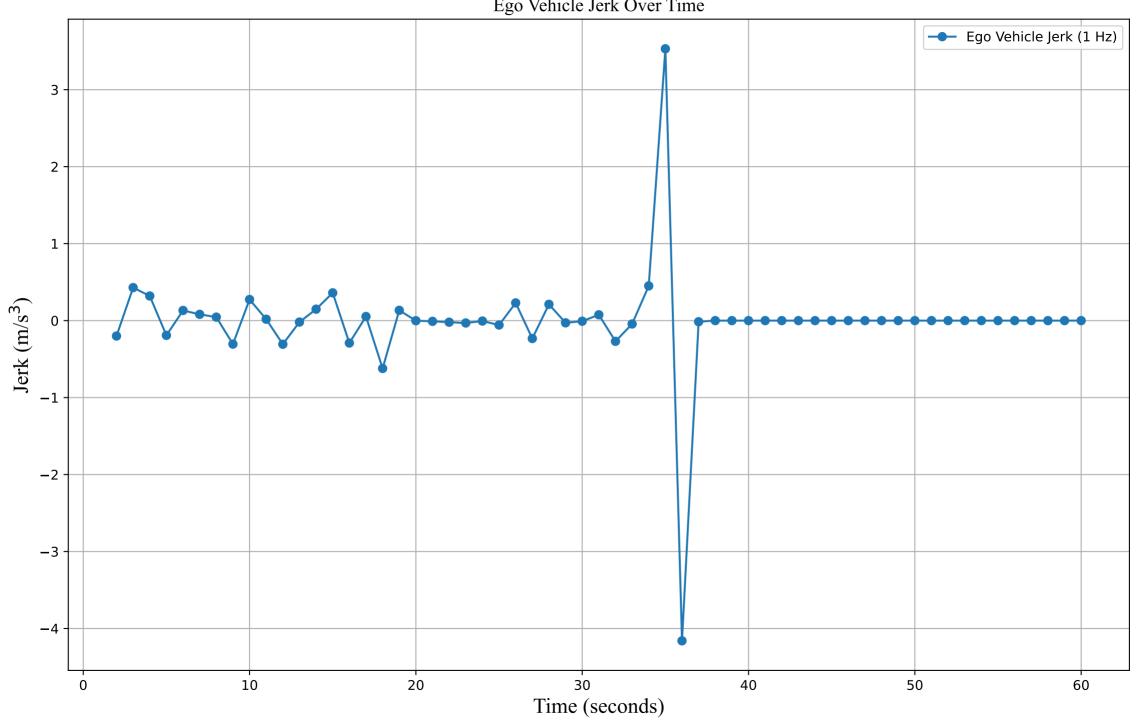


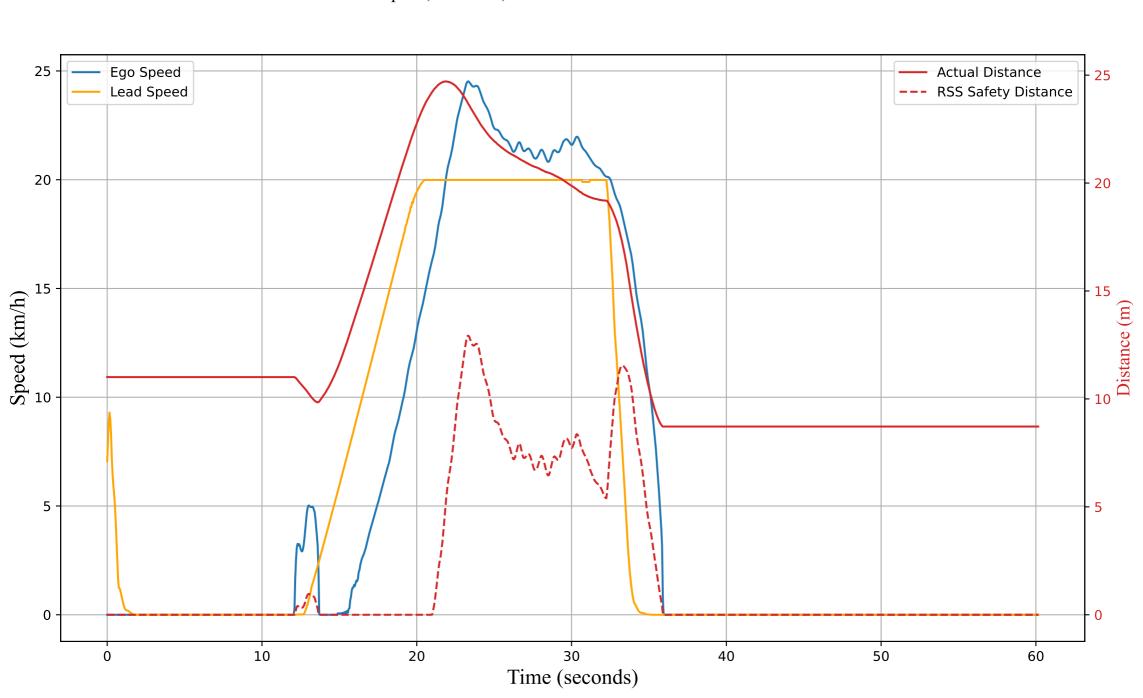
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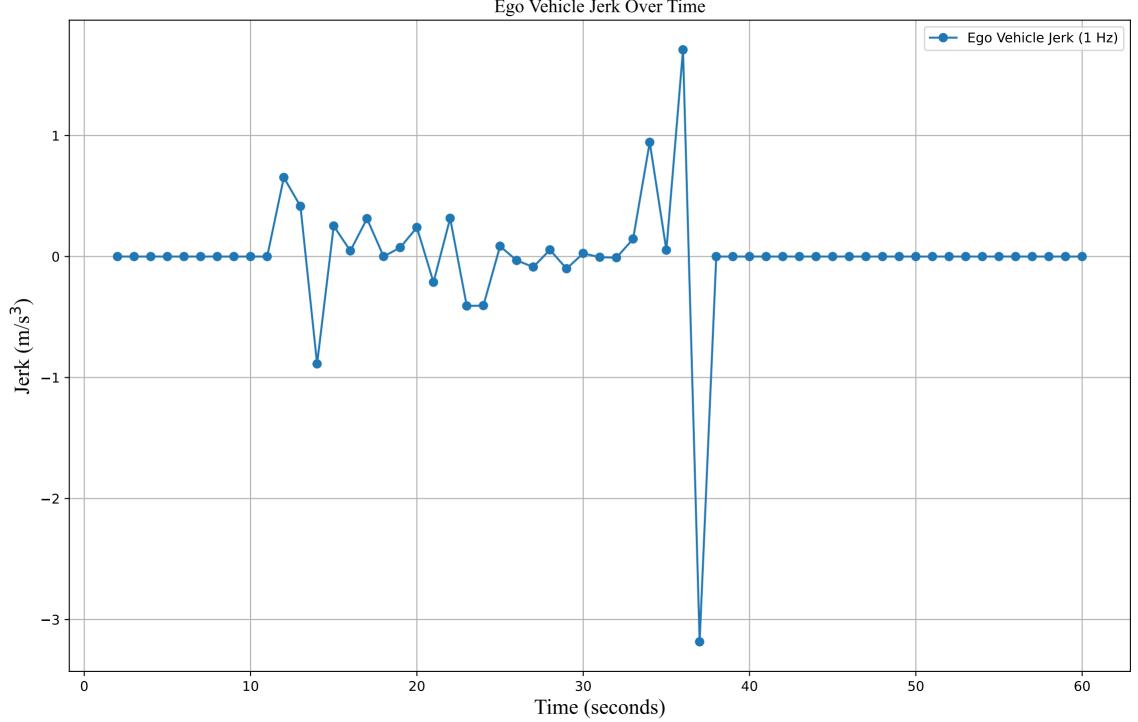


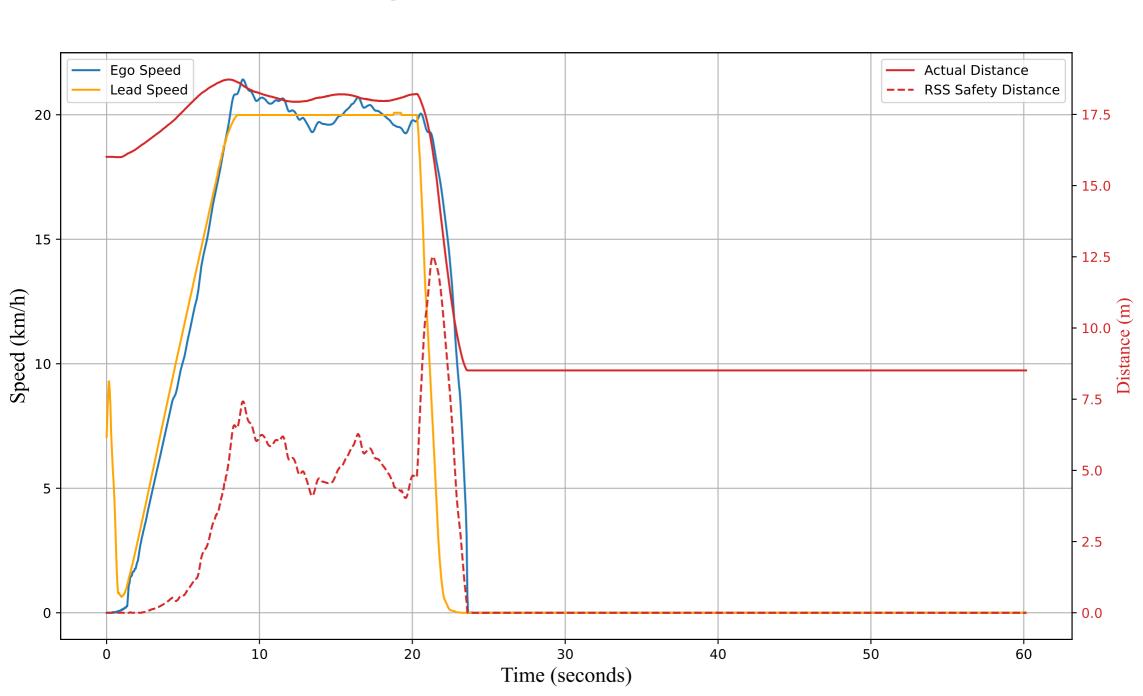
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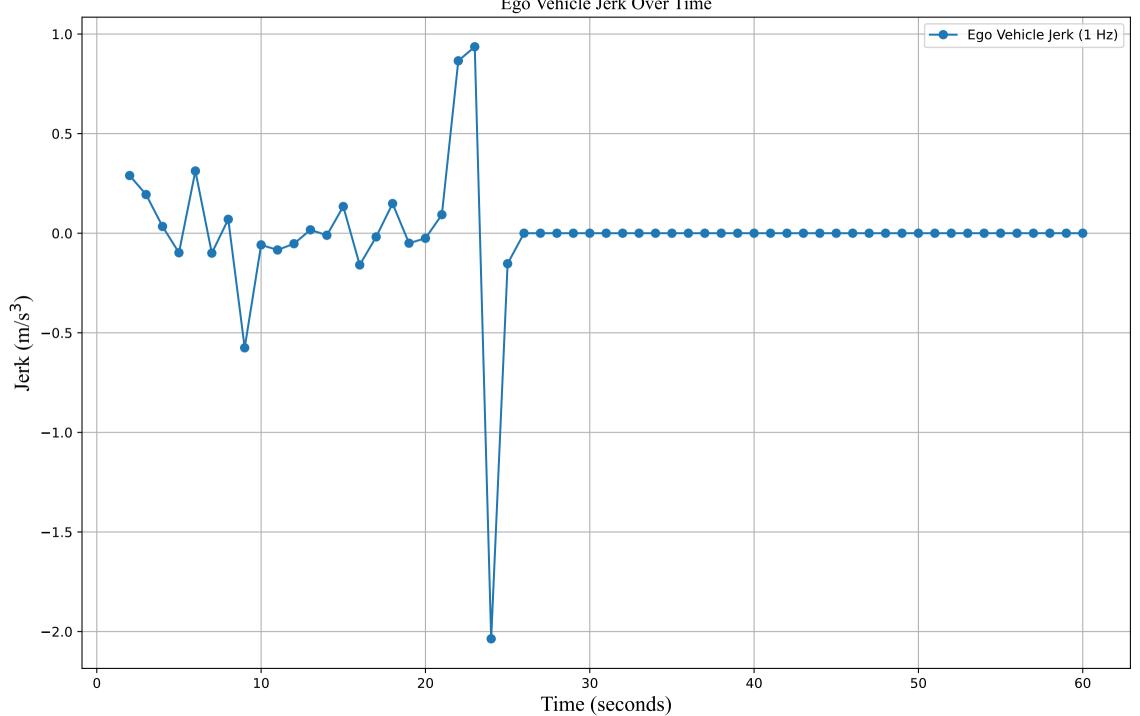


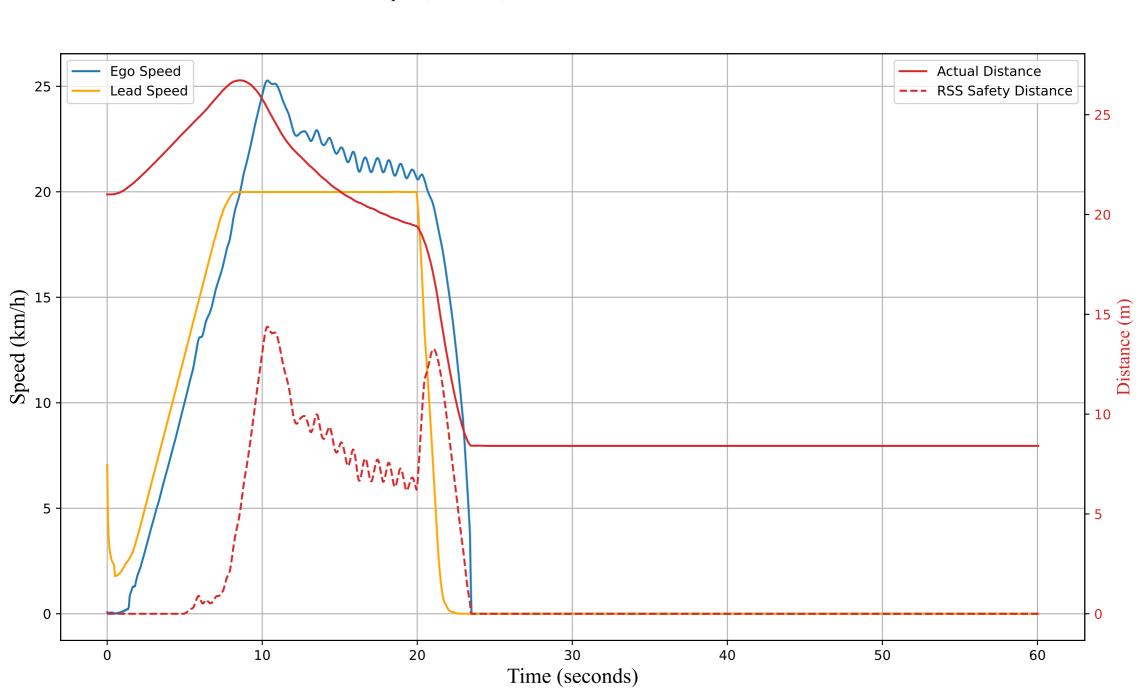
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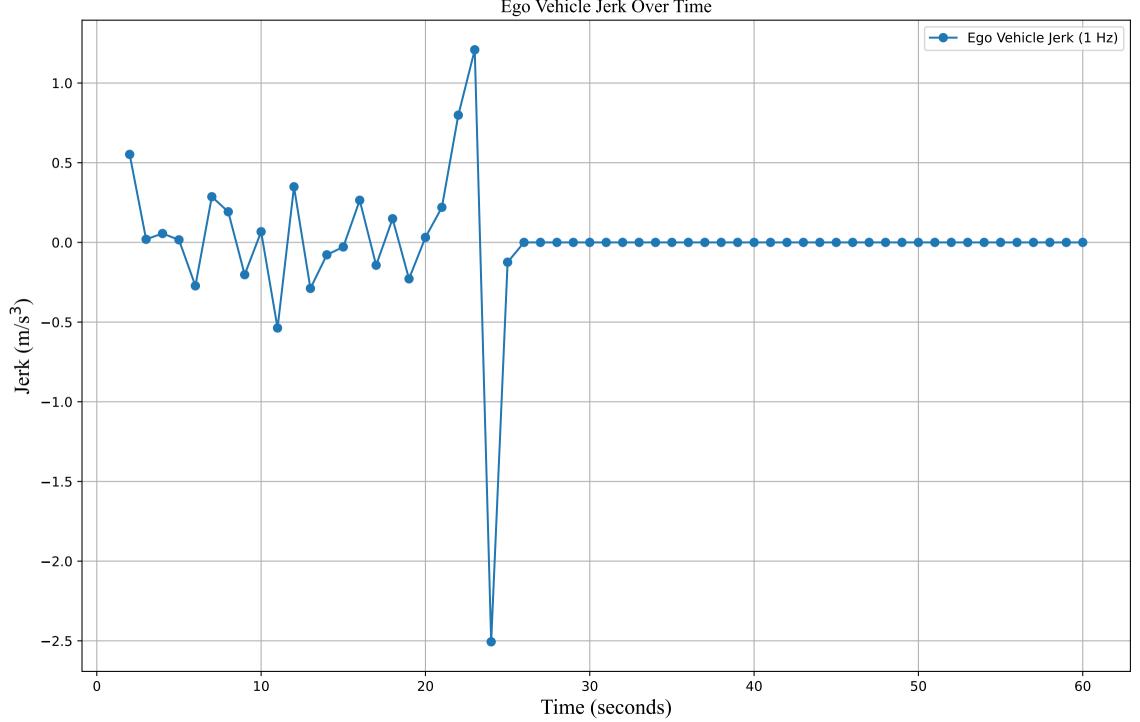


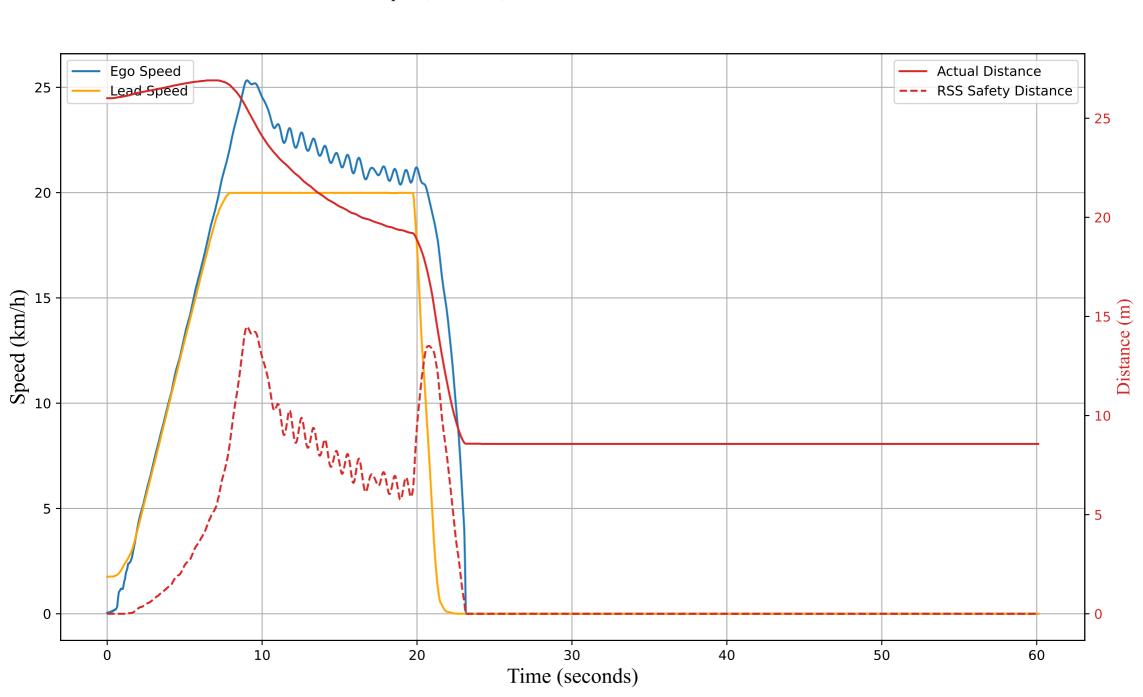
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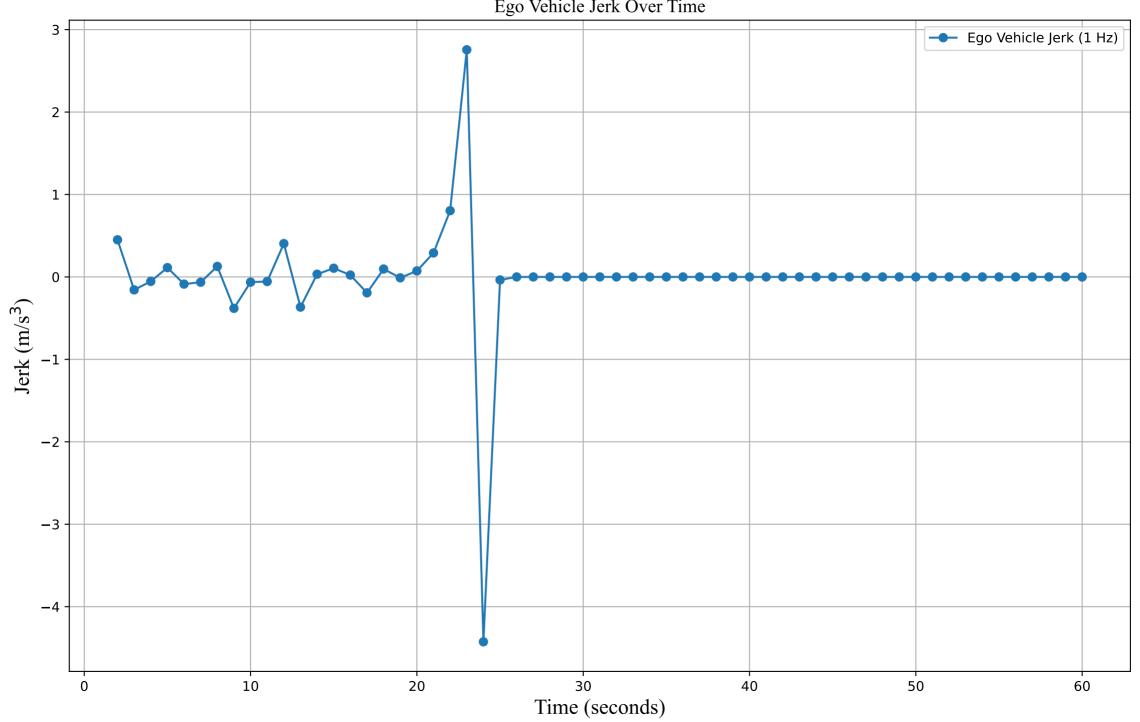


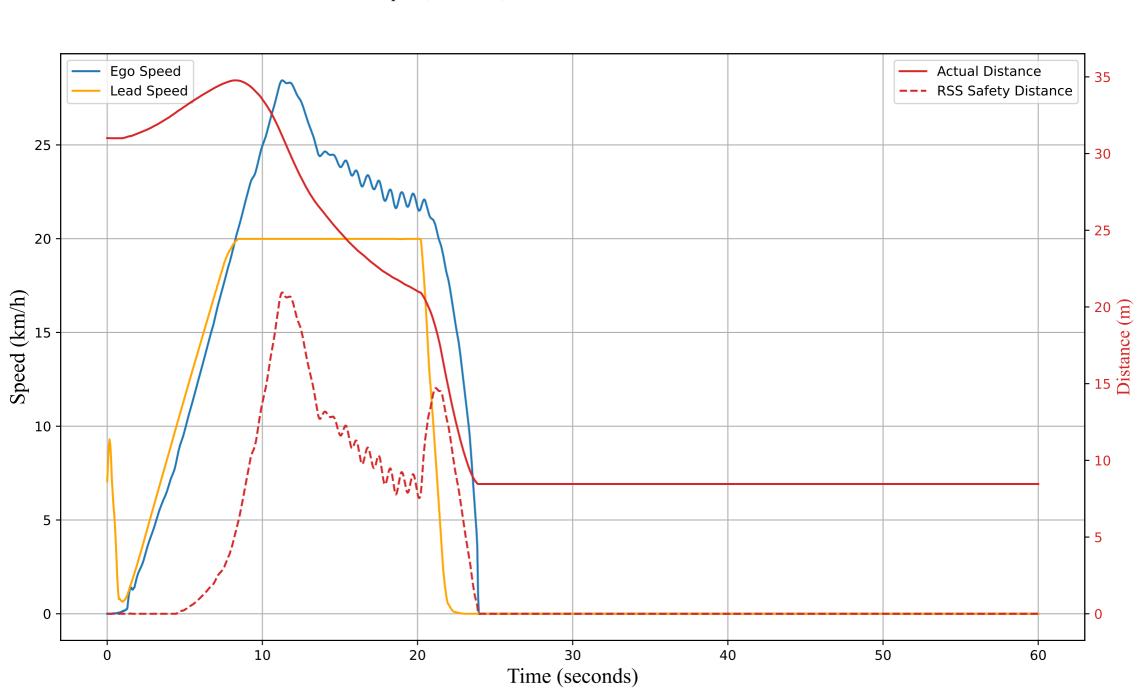
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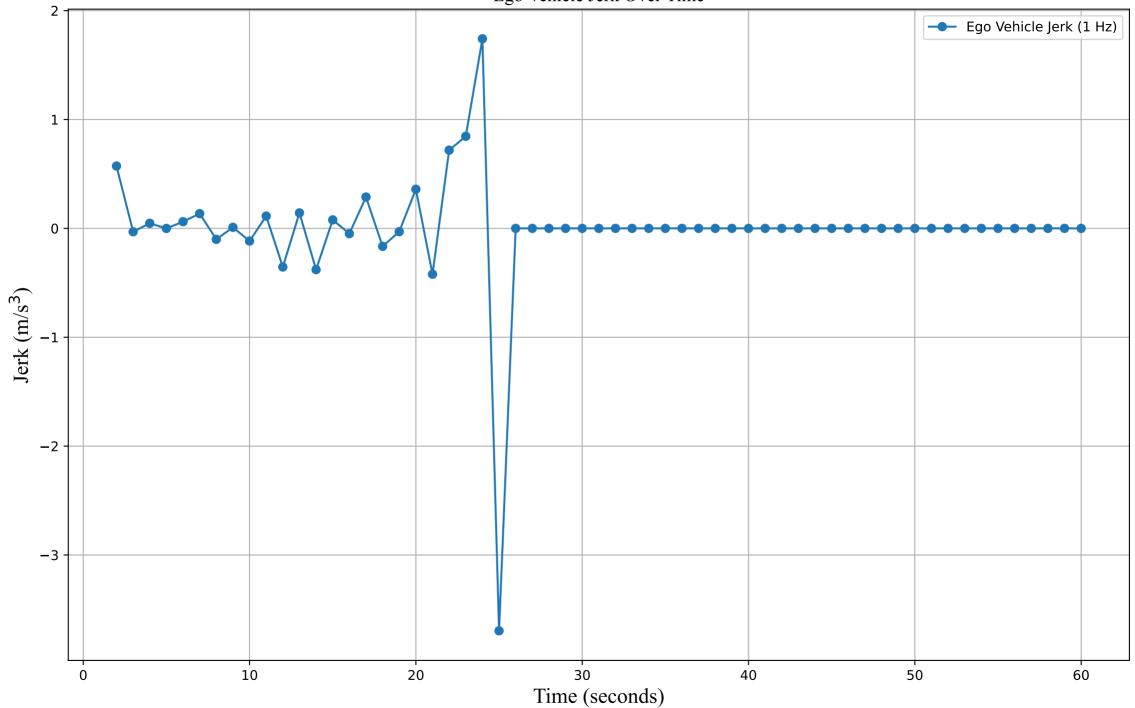


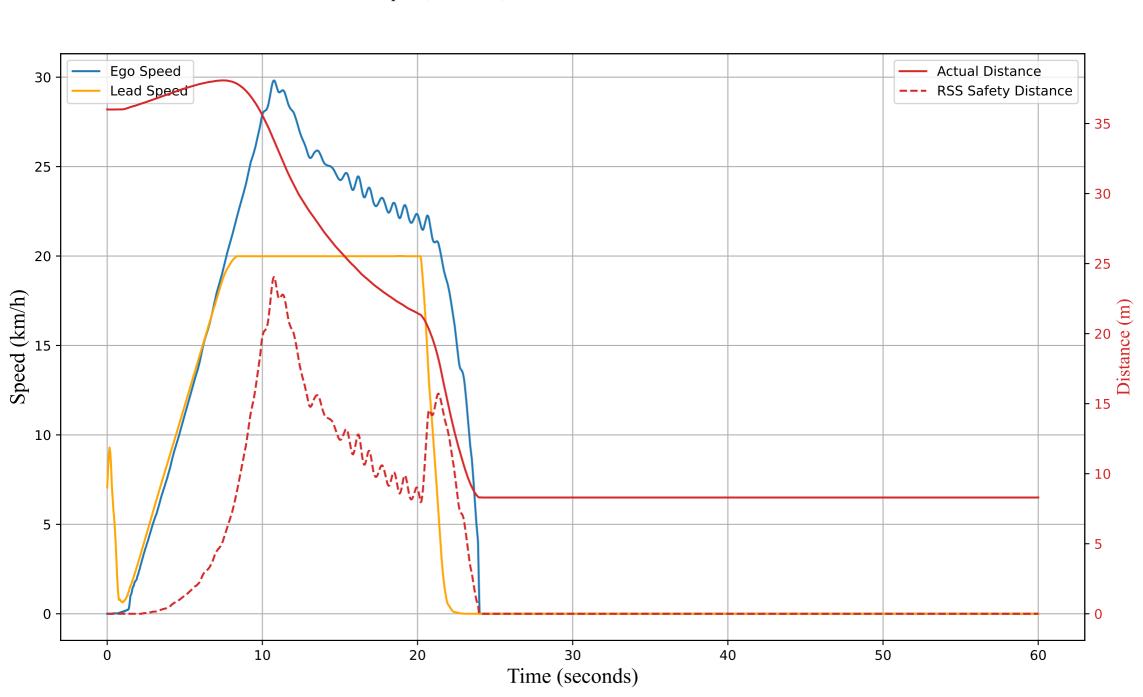


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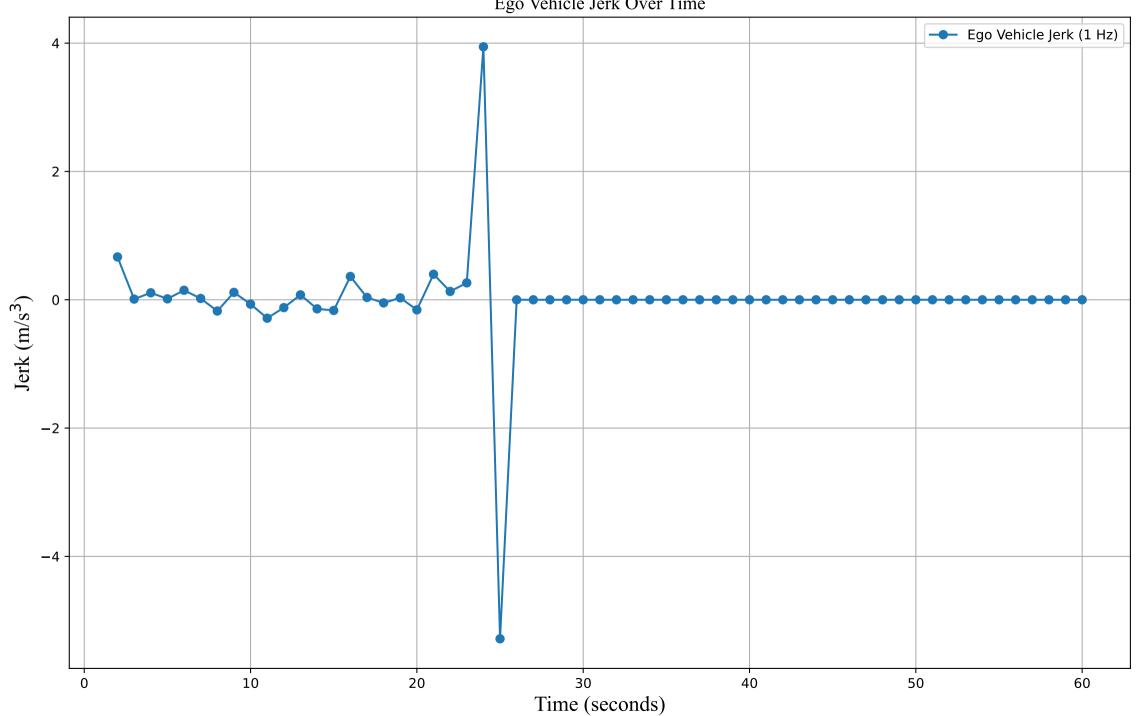


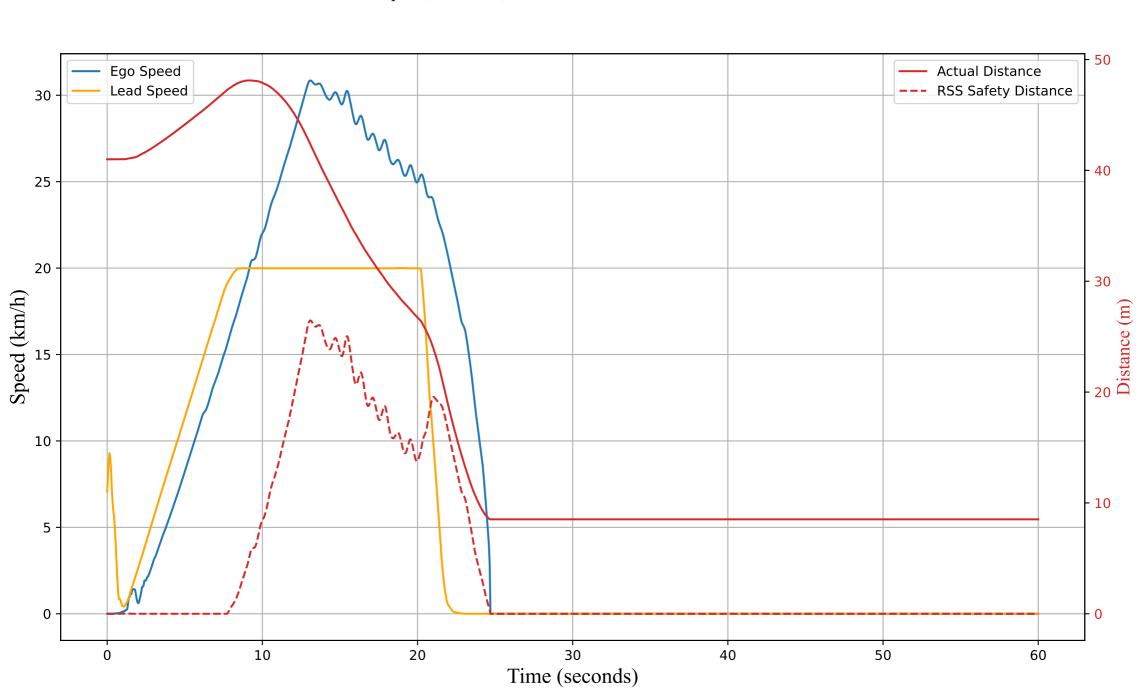




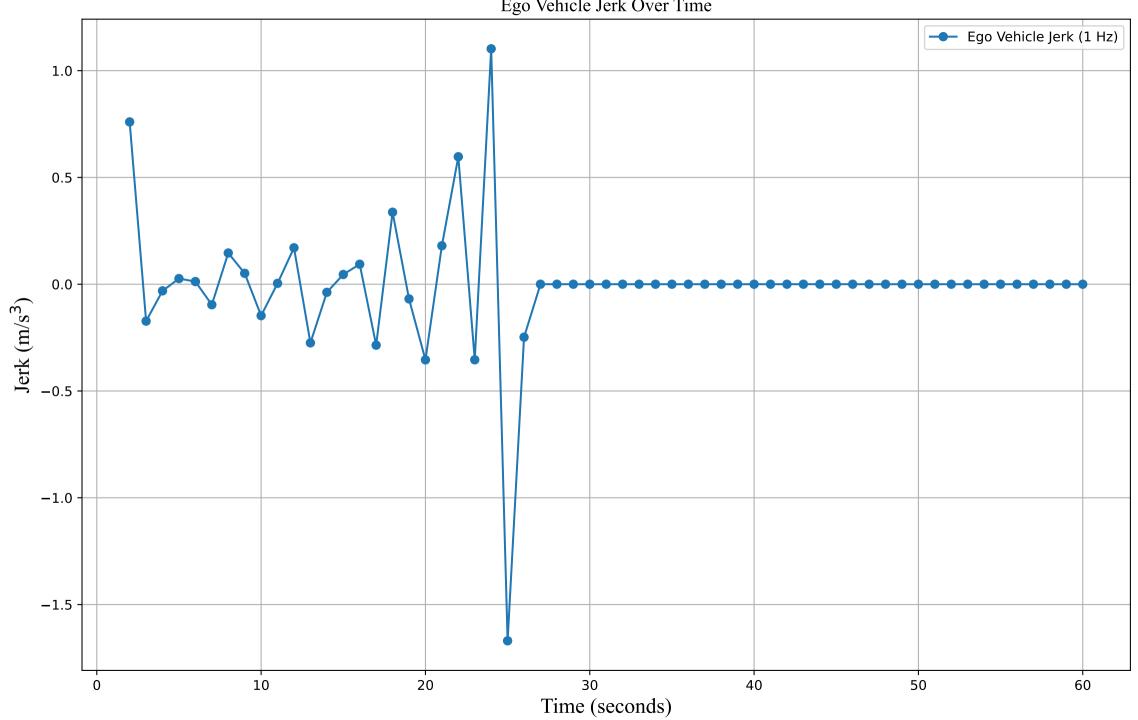


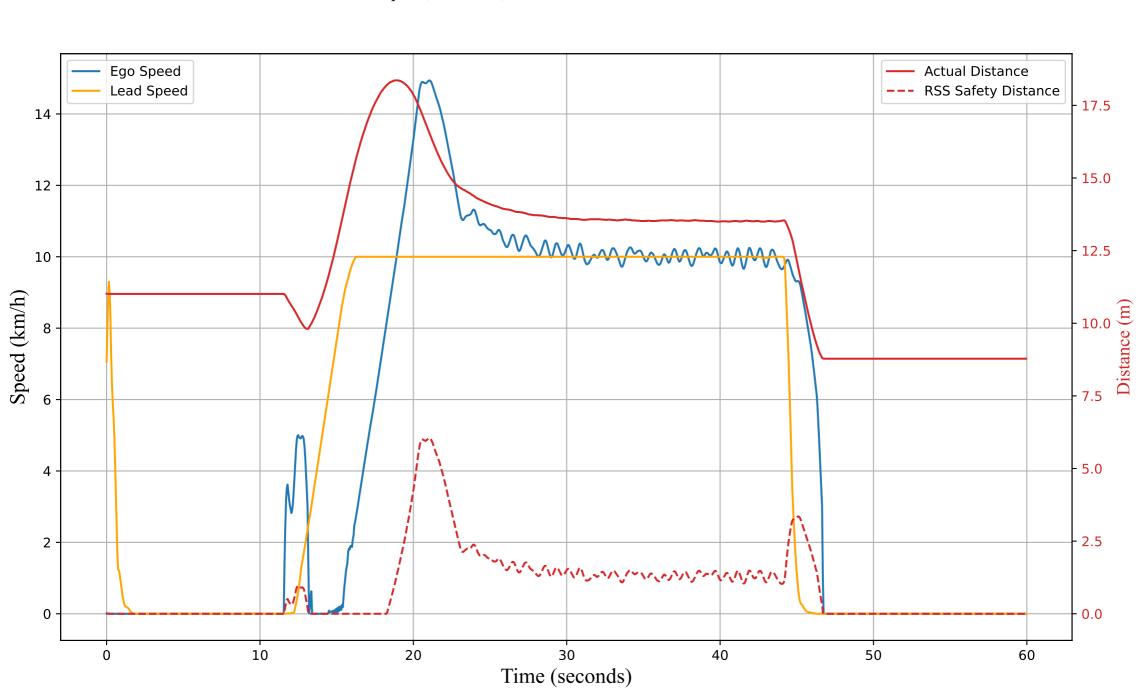
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



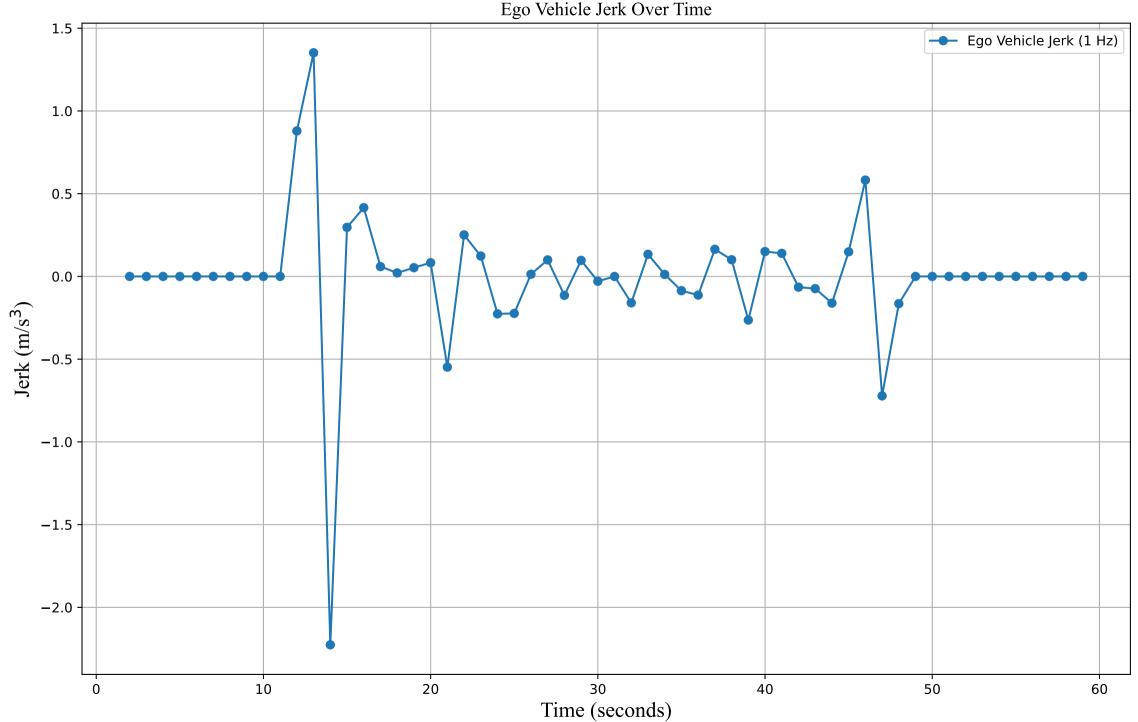


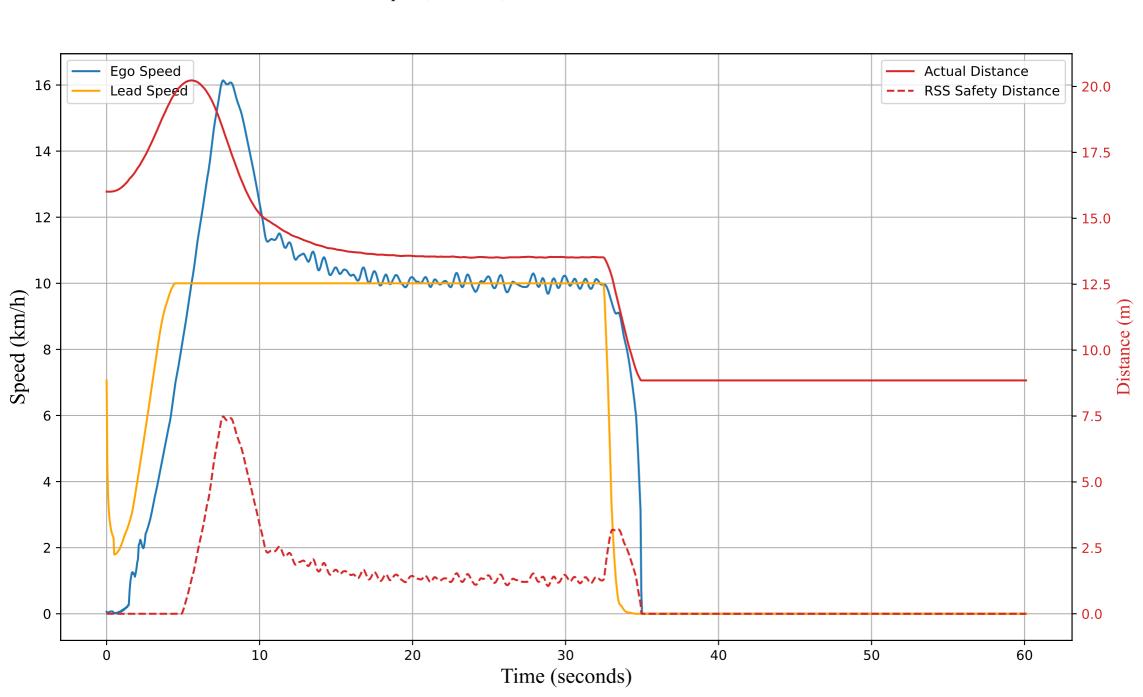
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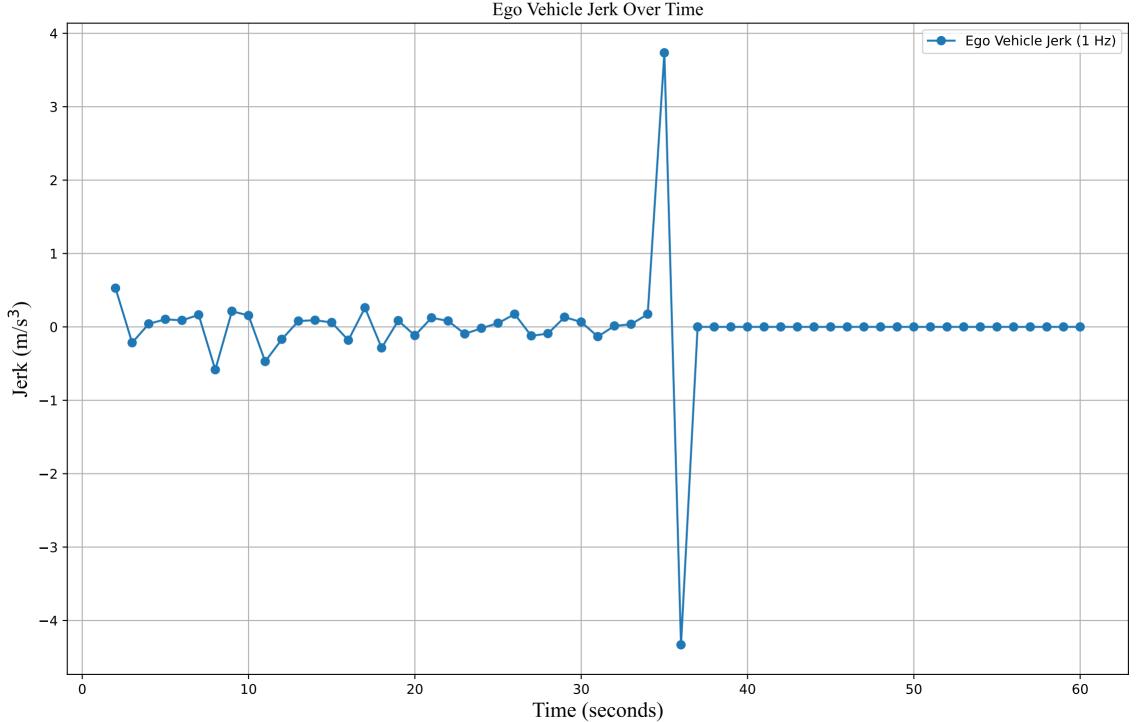


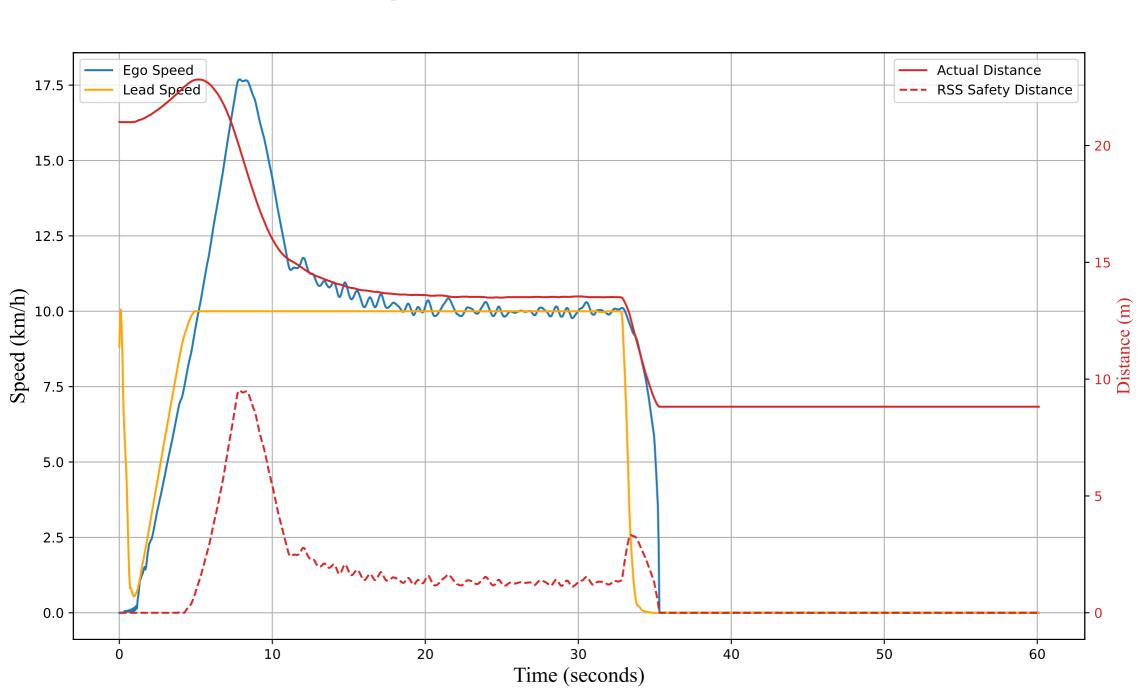
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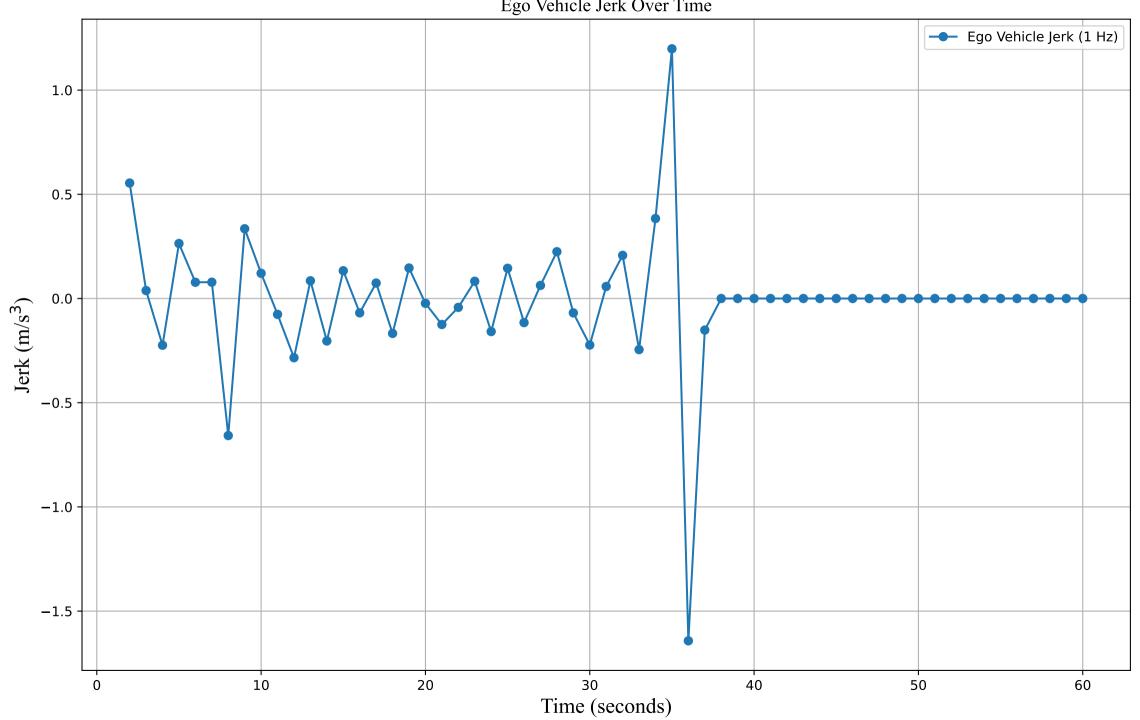


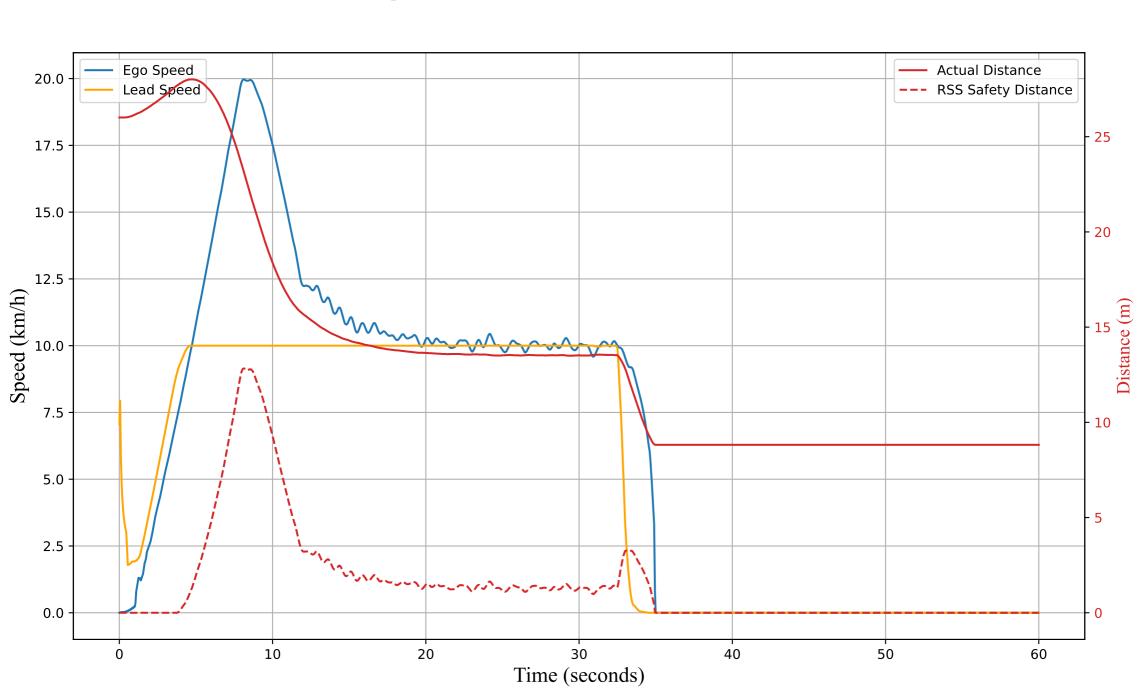
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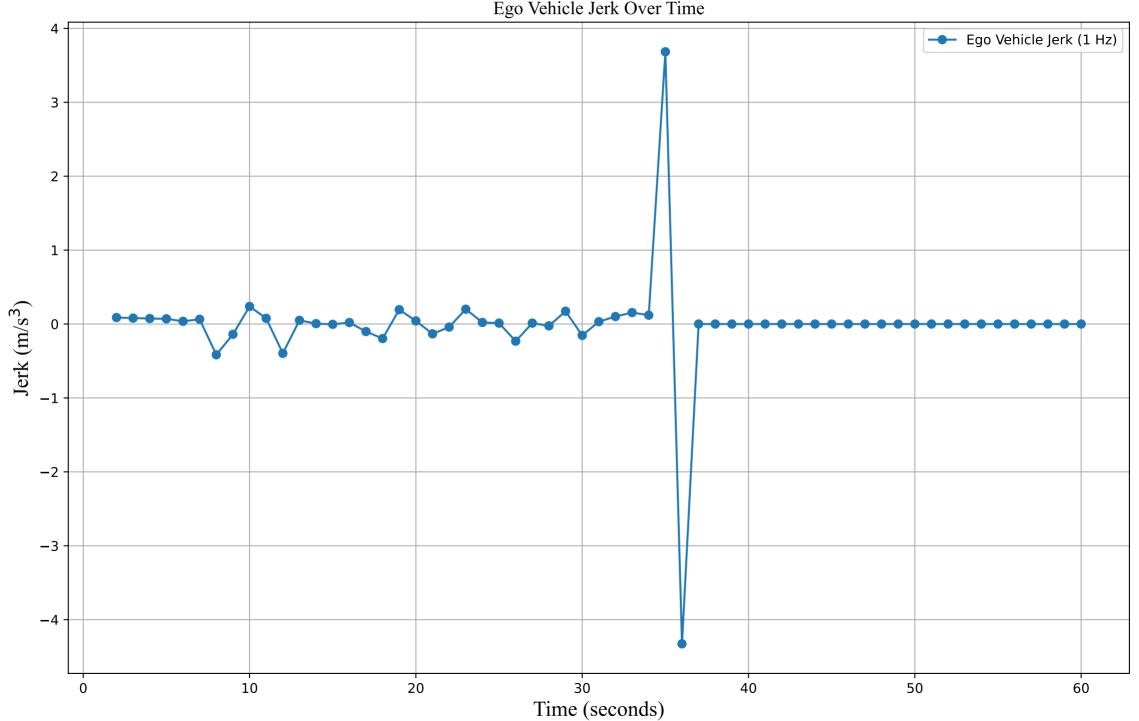


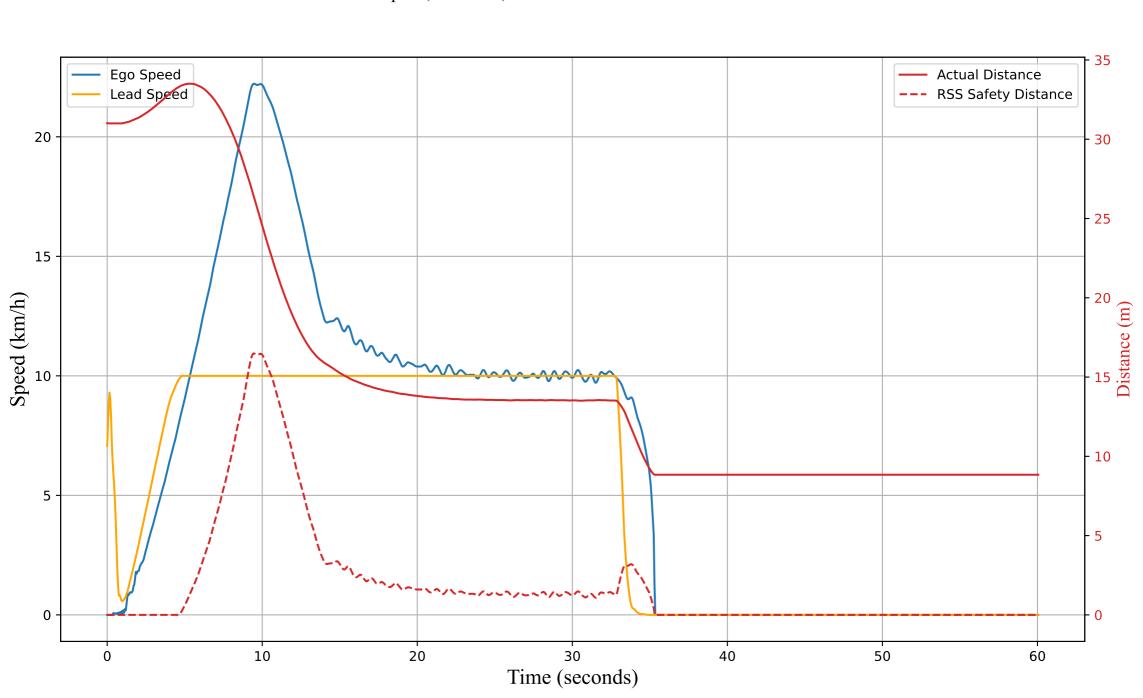
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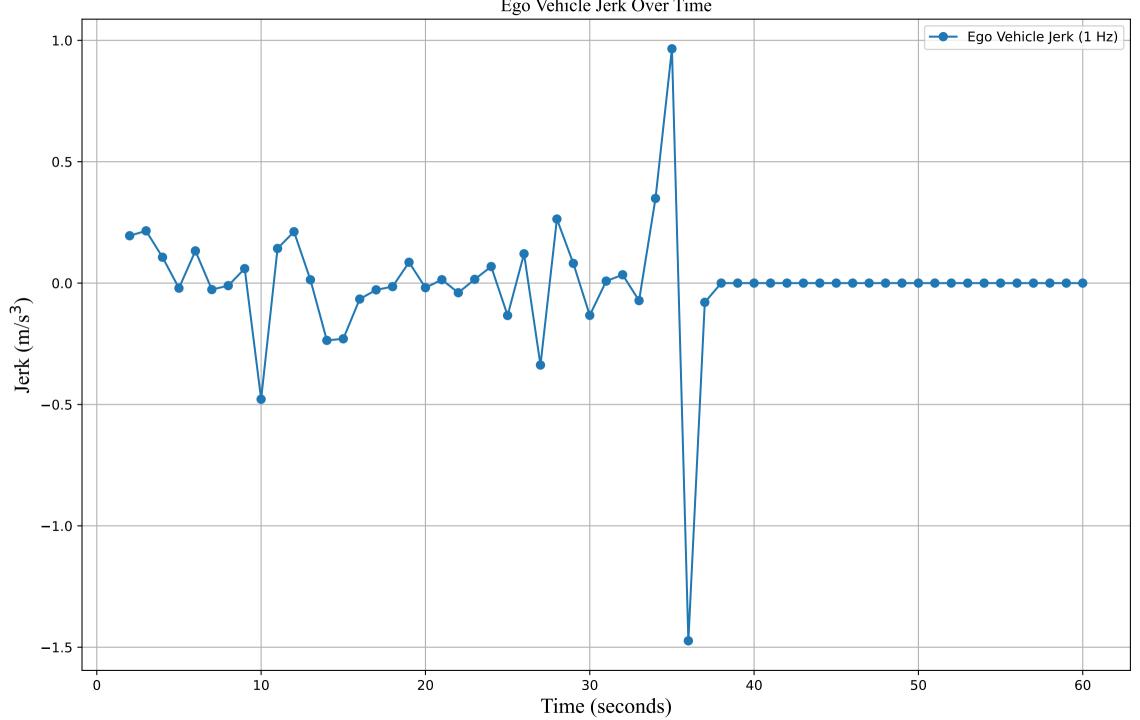


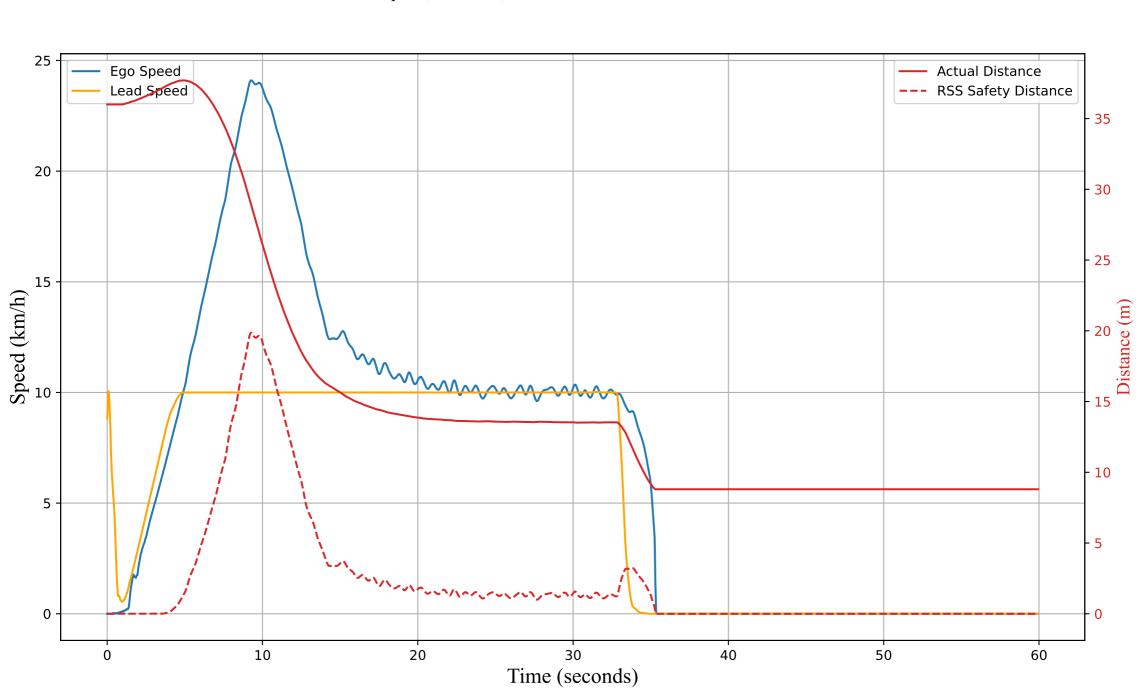
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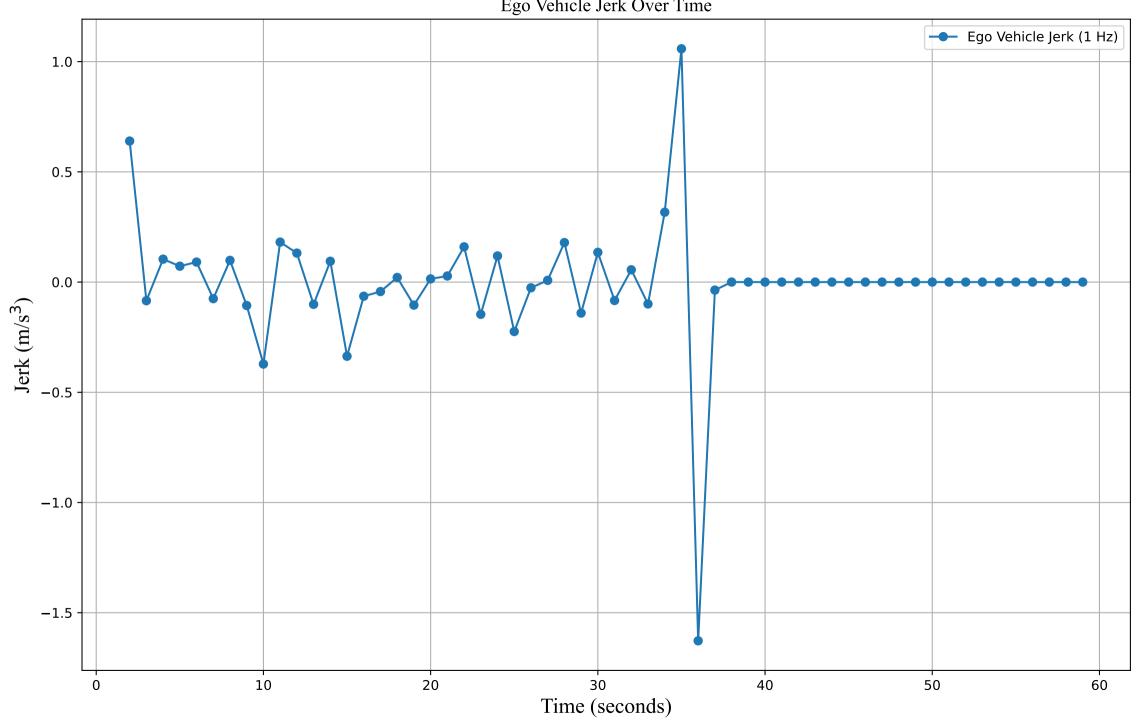


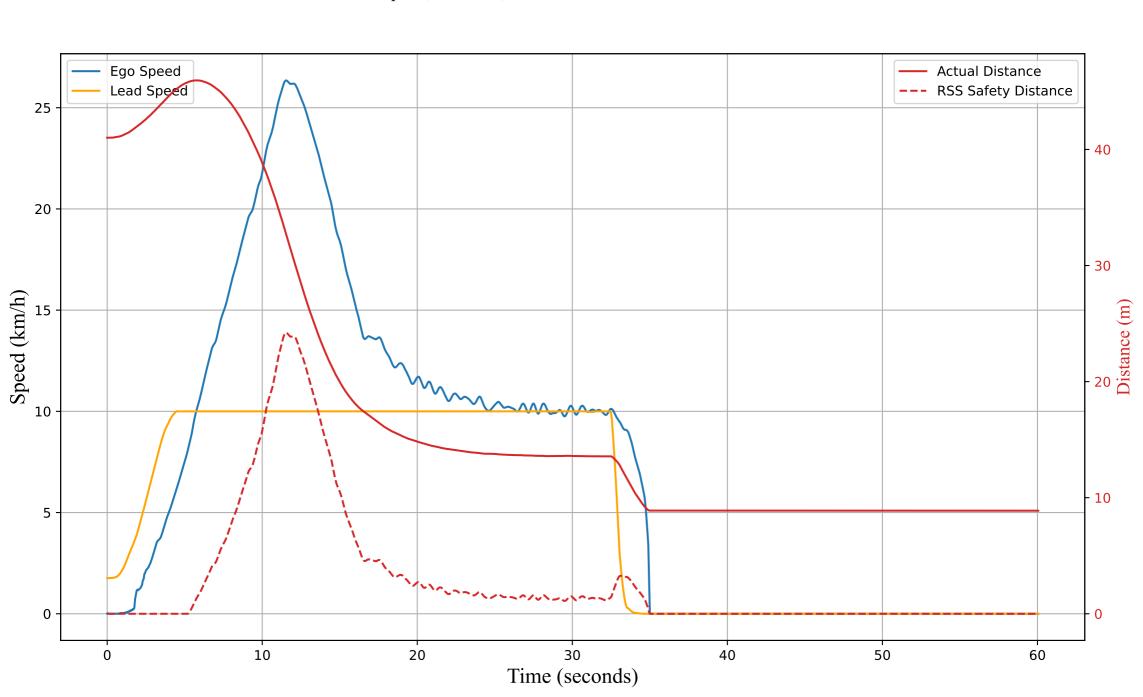
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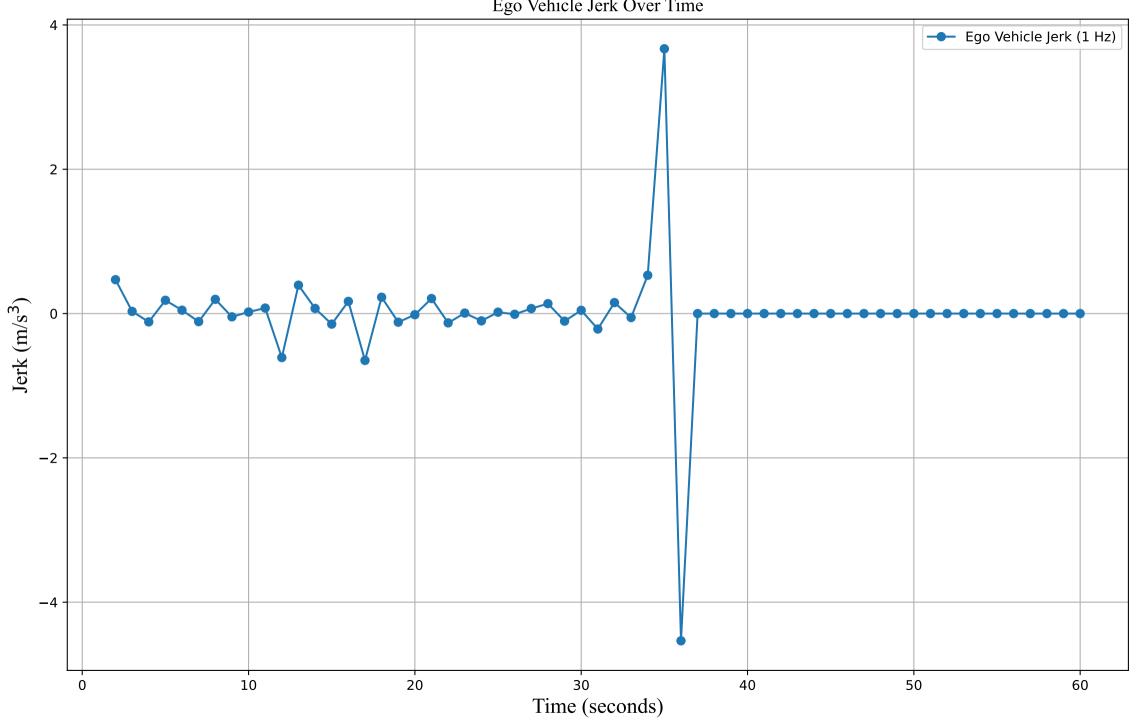


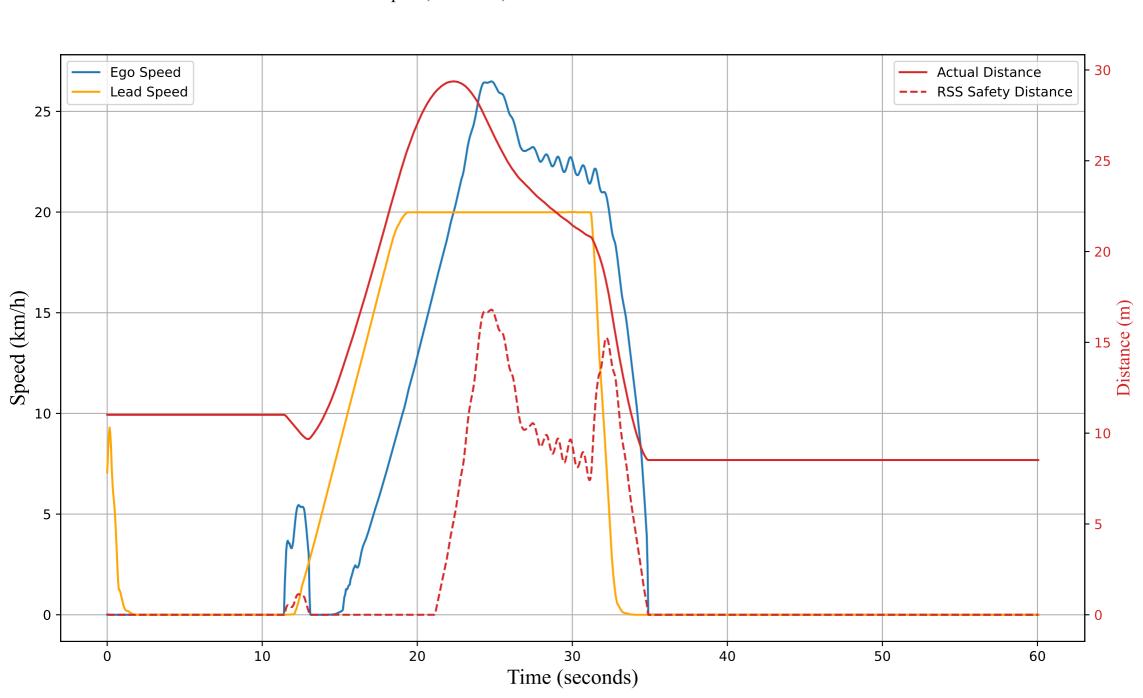
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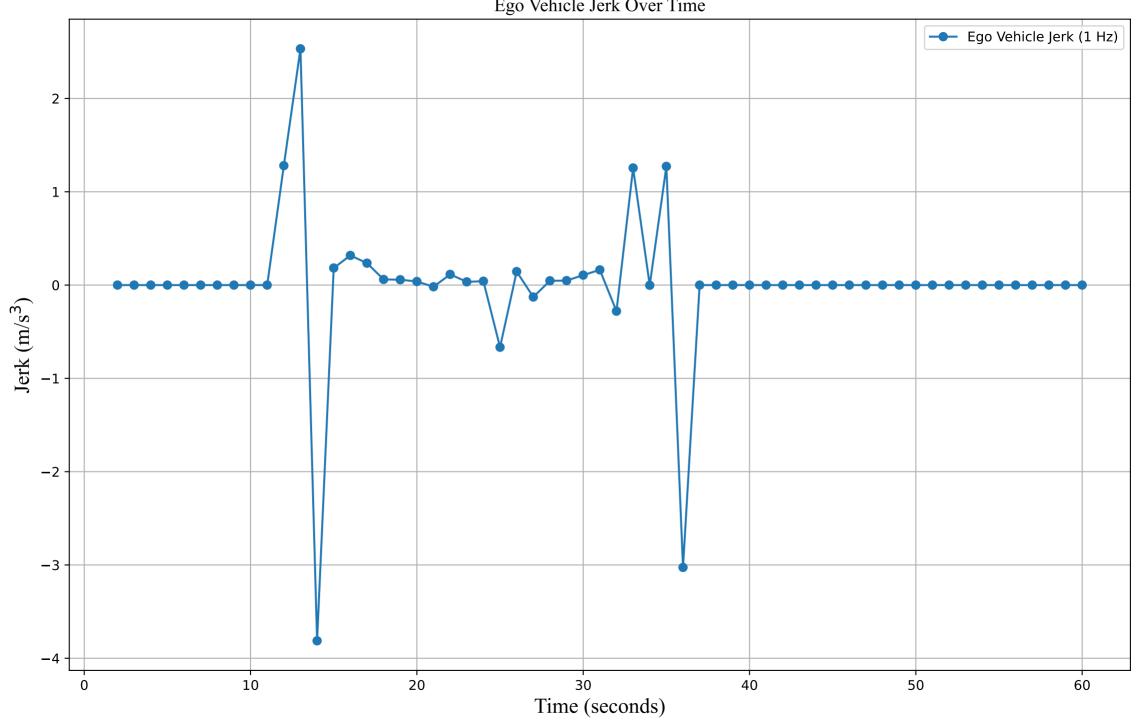


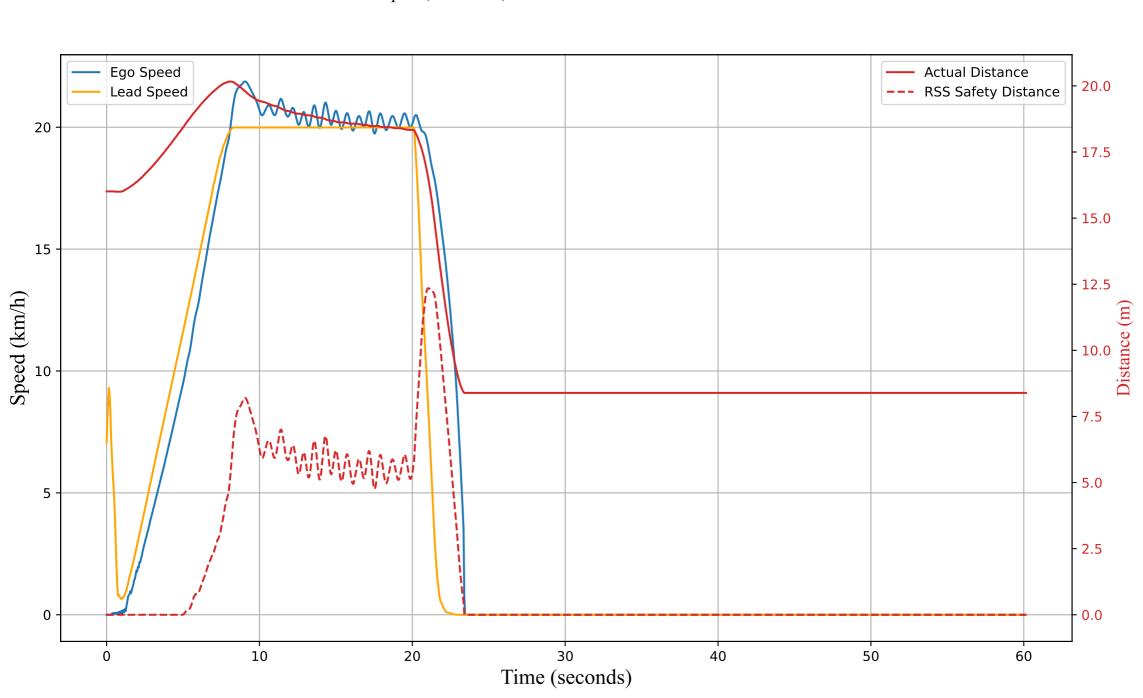
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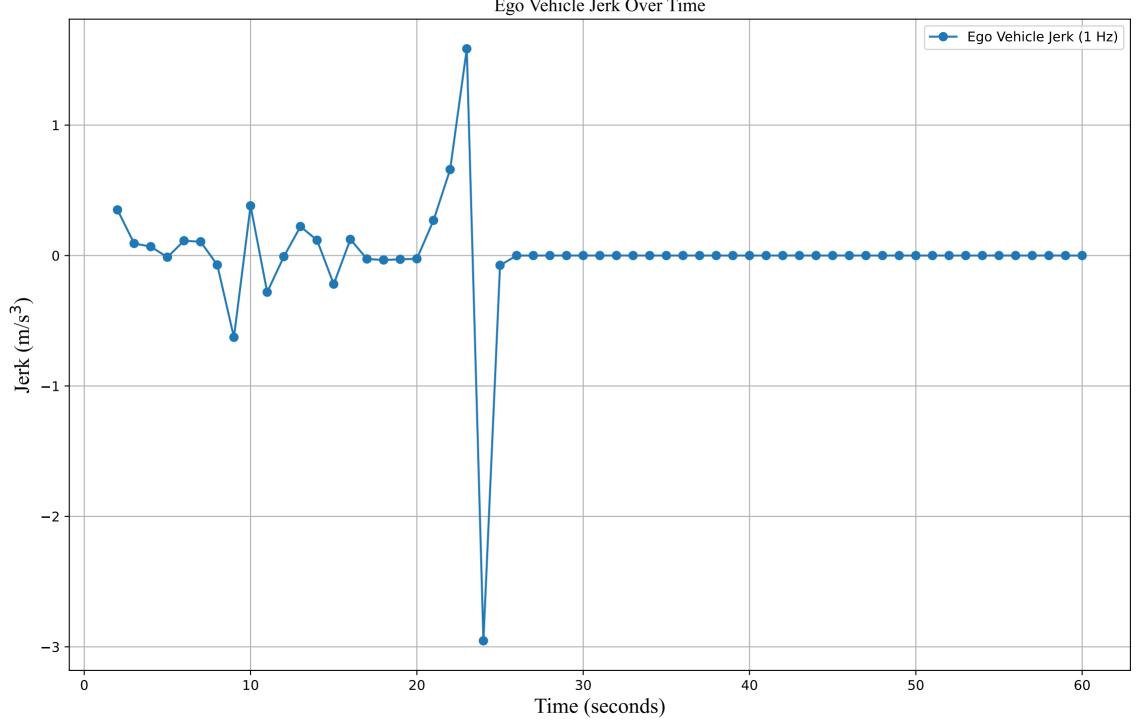


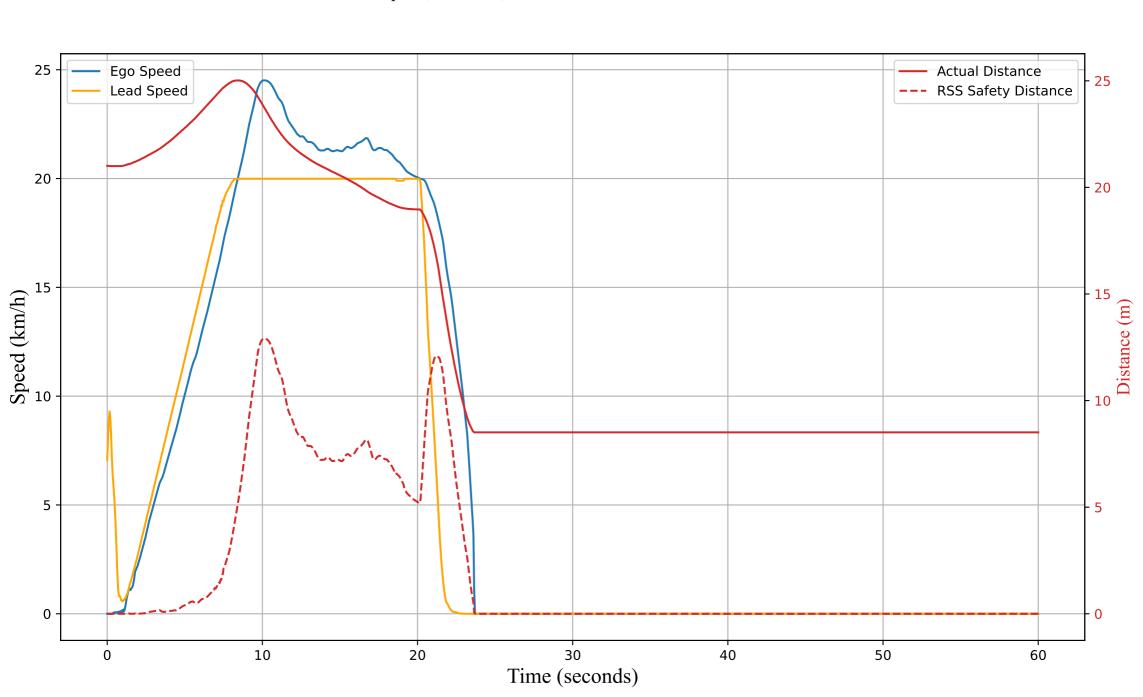
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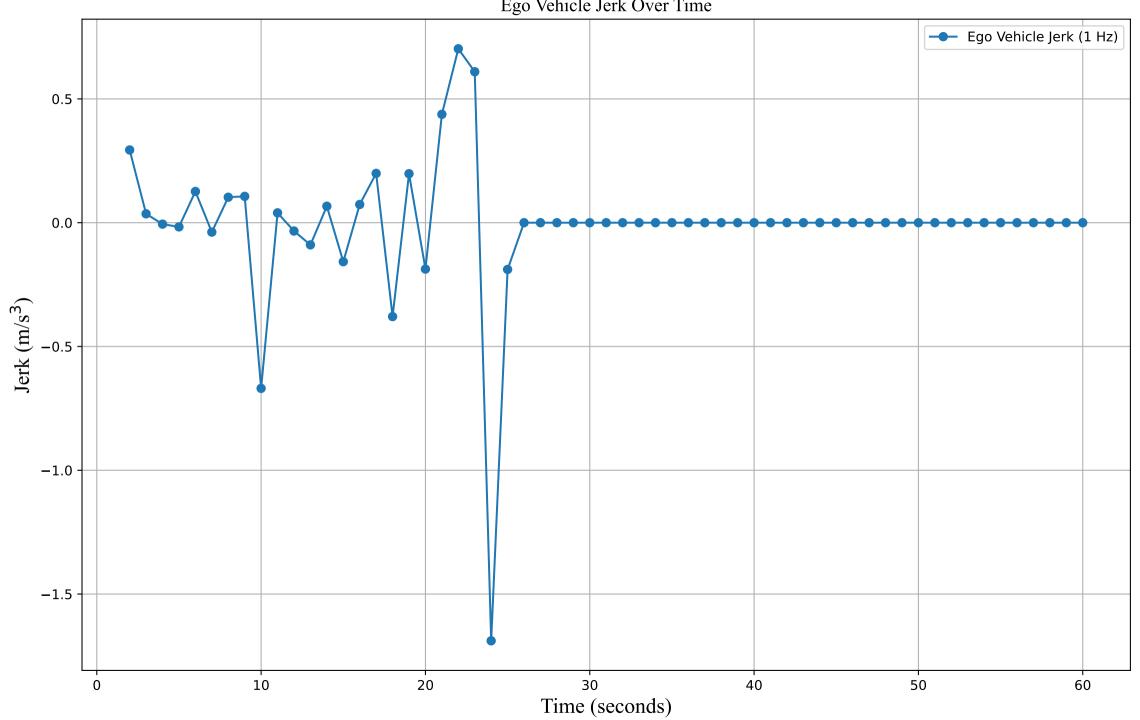


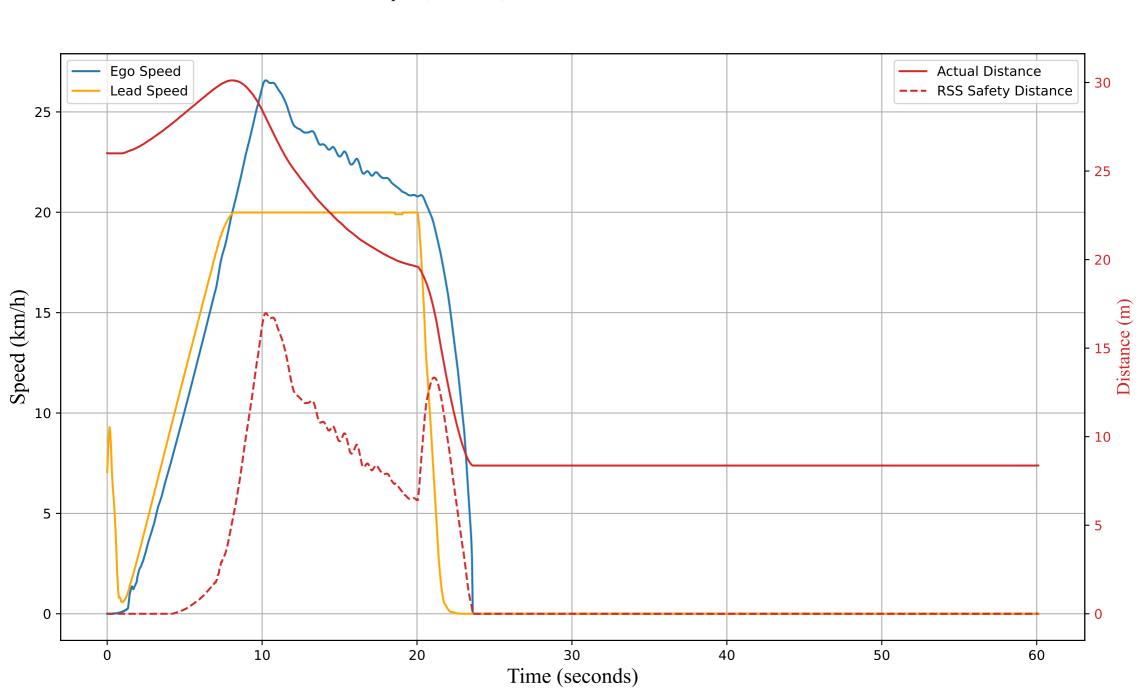
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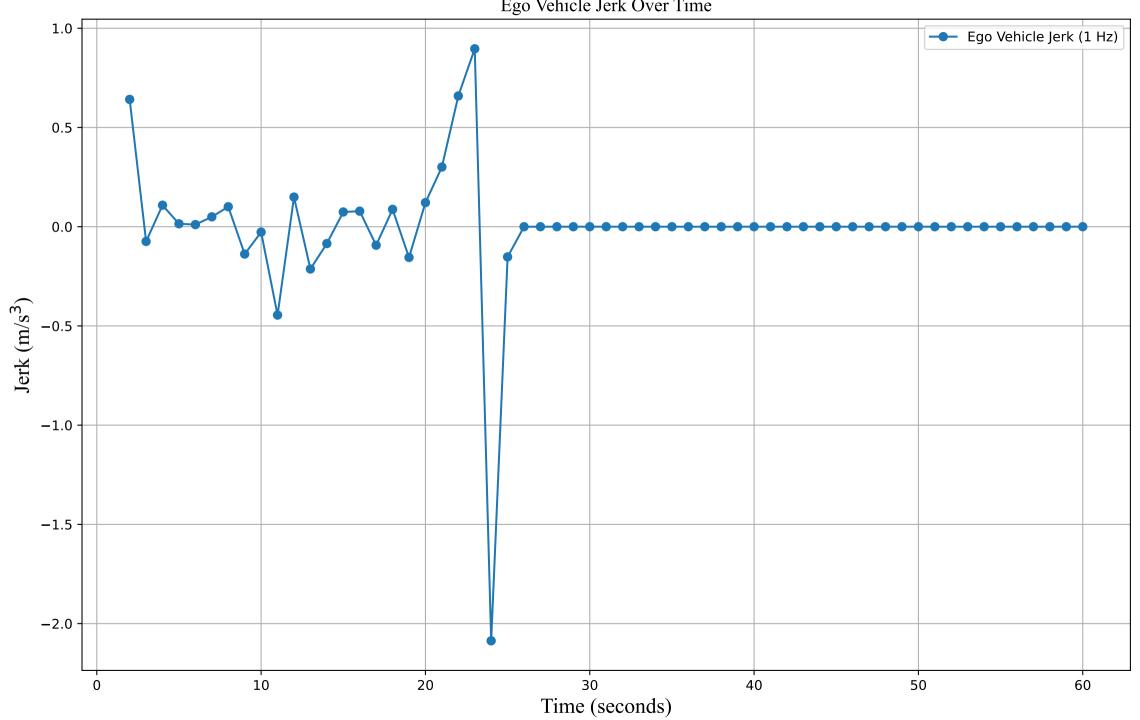


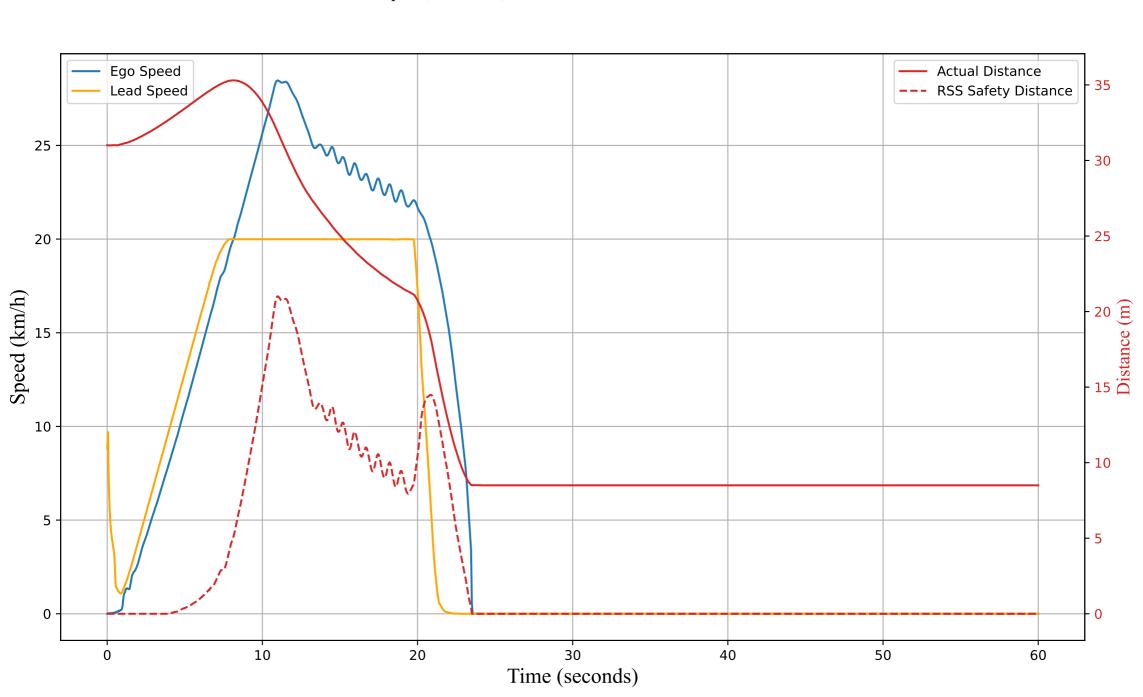
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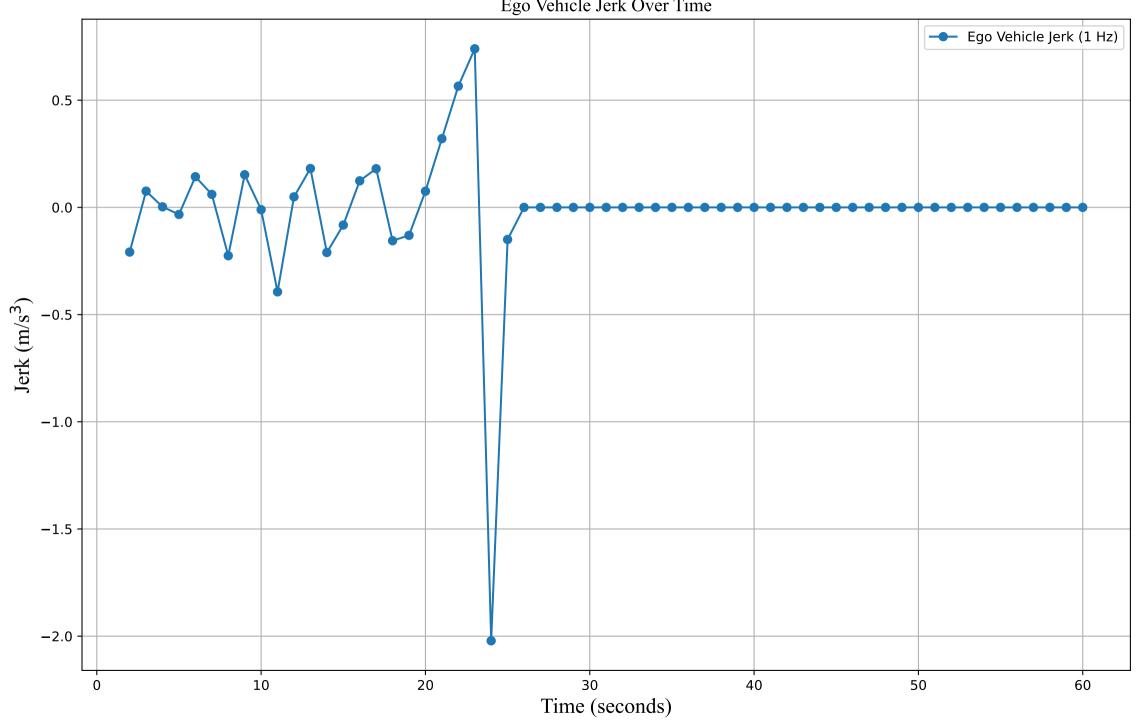


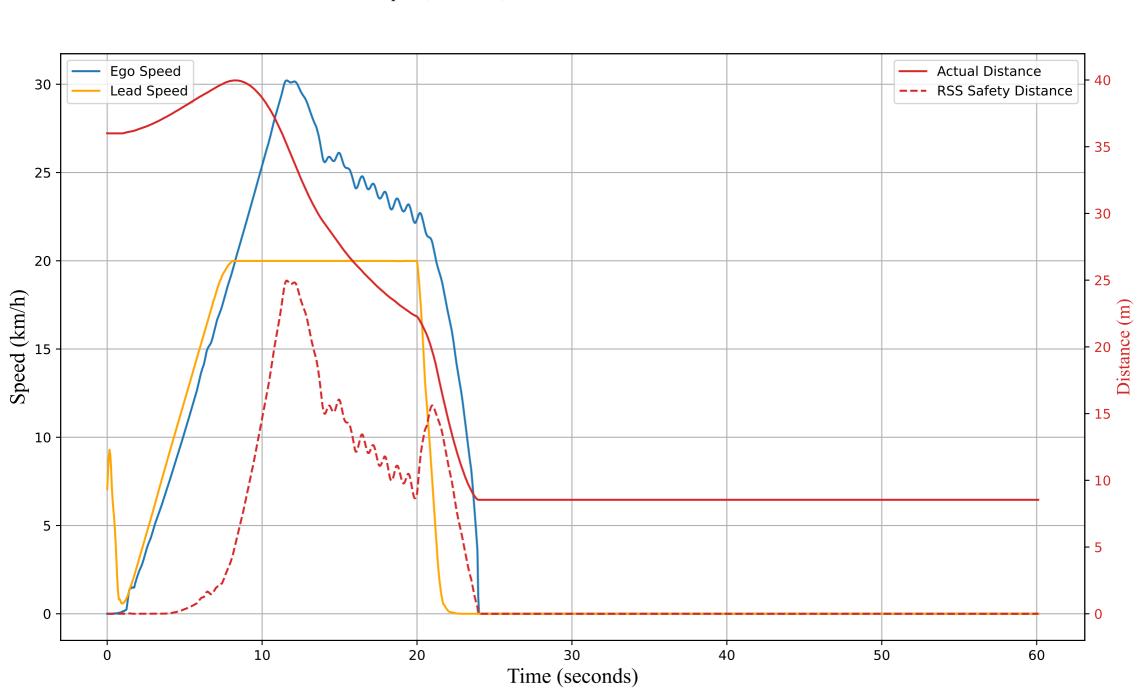
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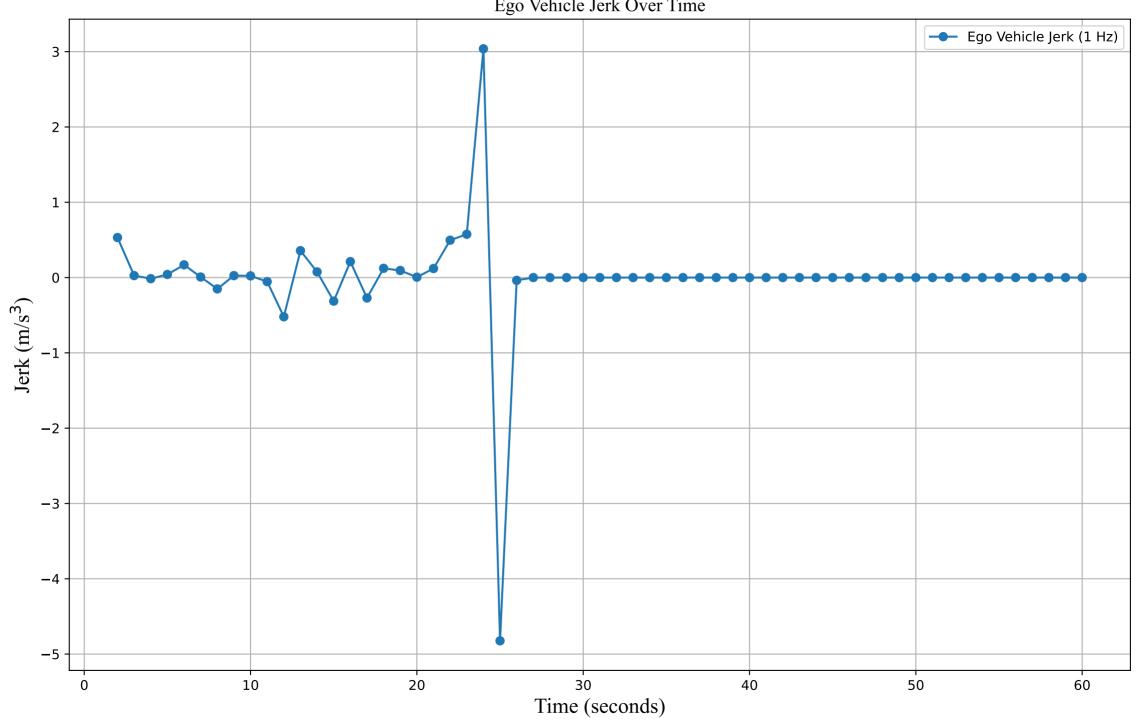


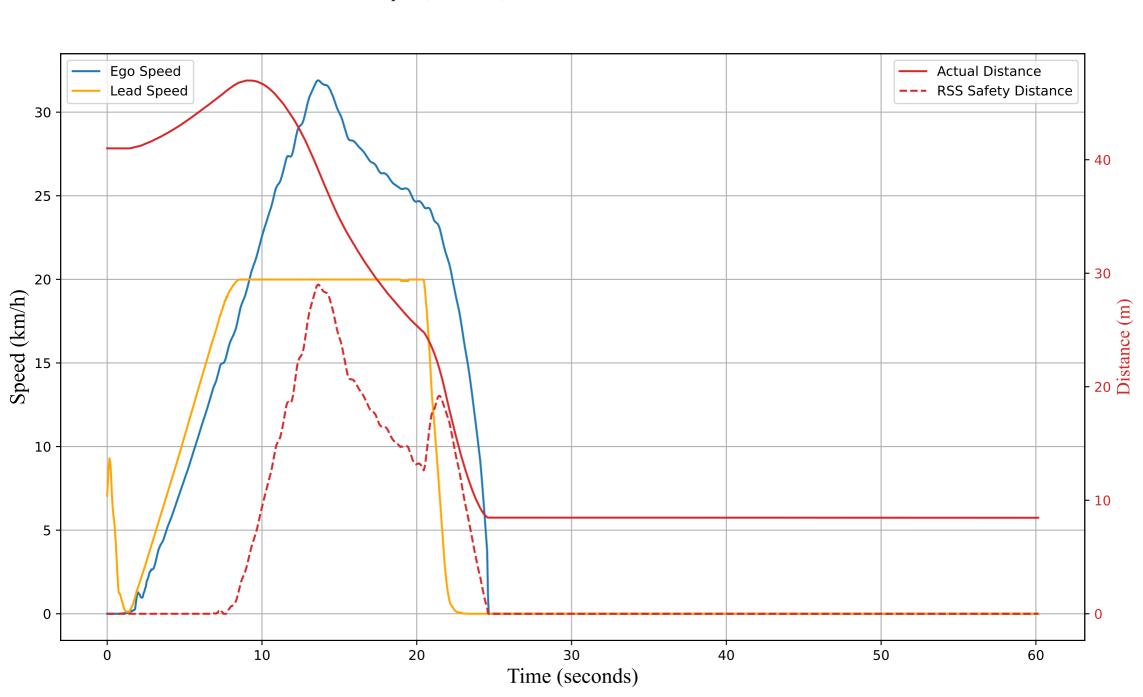
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=30 m Ego Vehicle Jerk Over Time



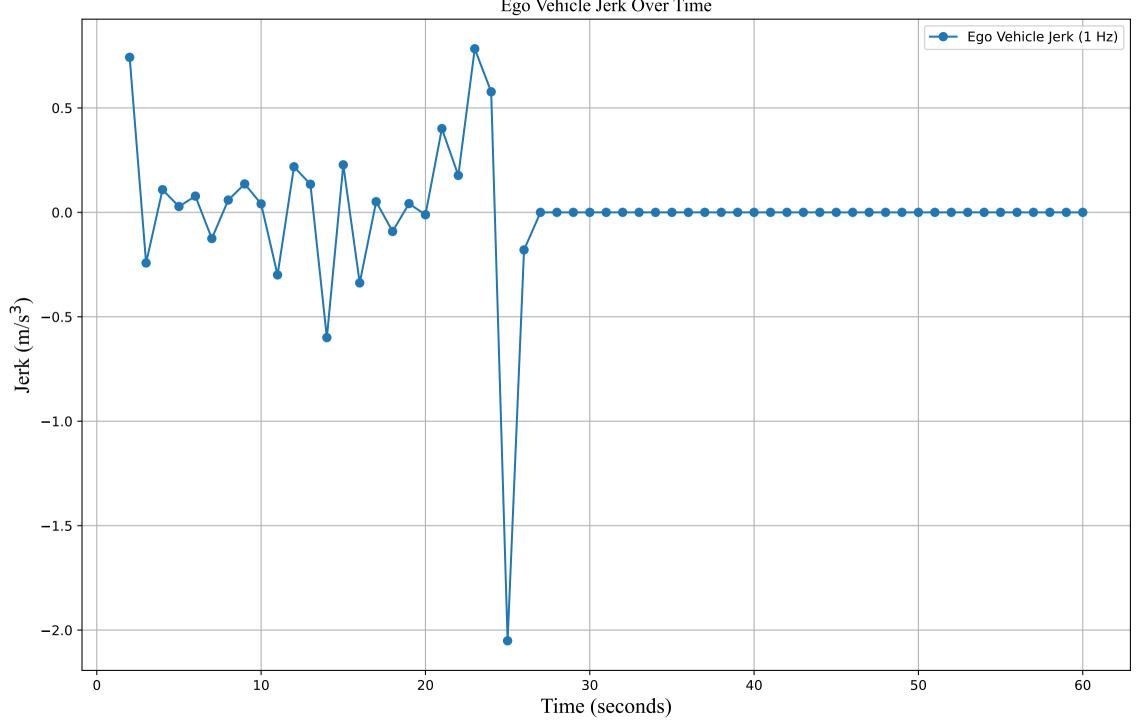


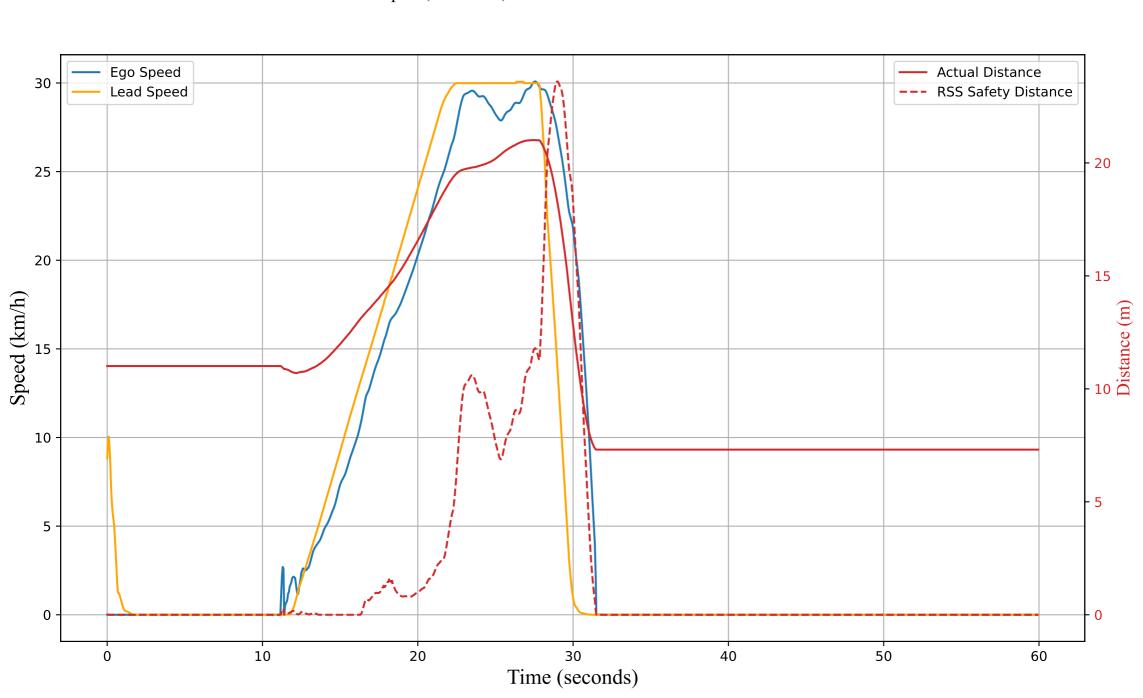
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



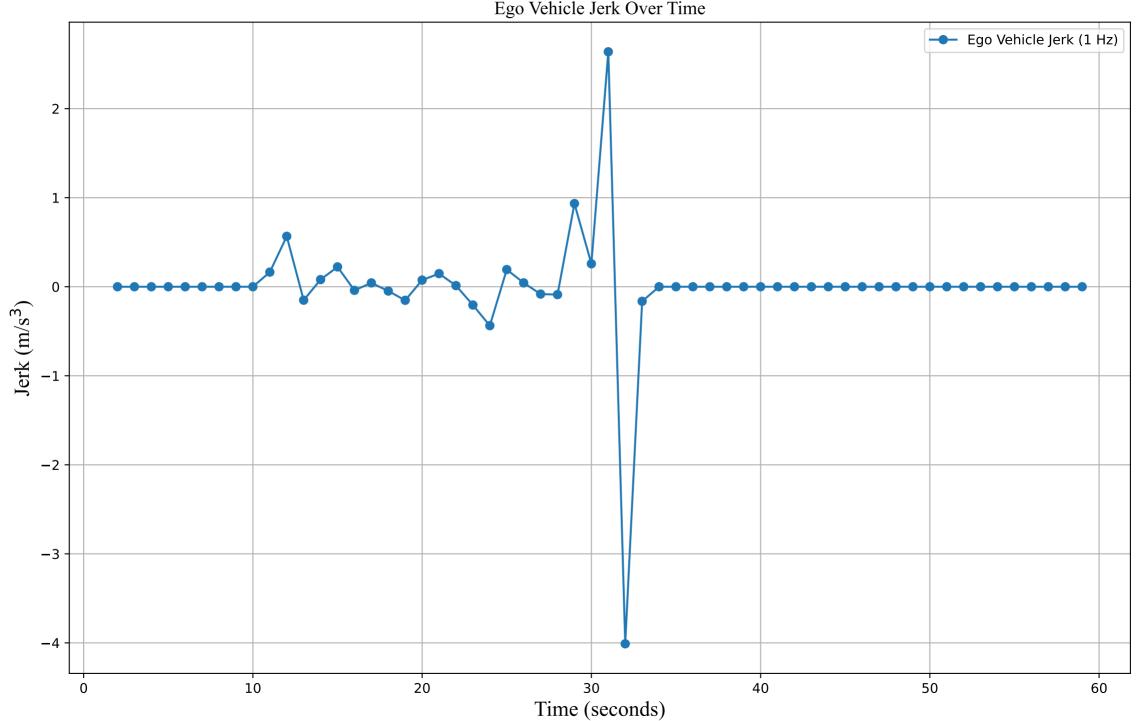


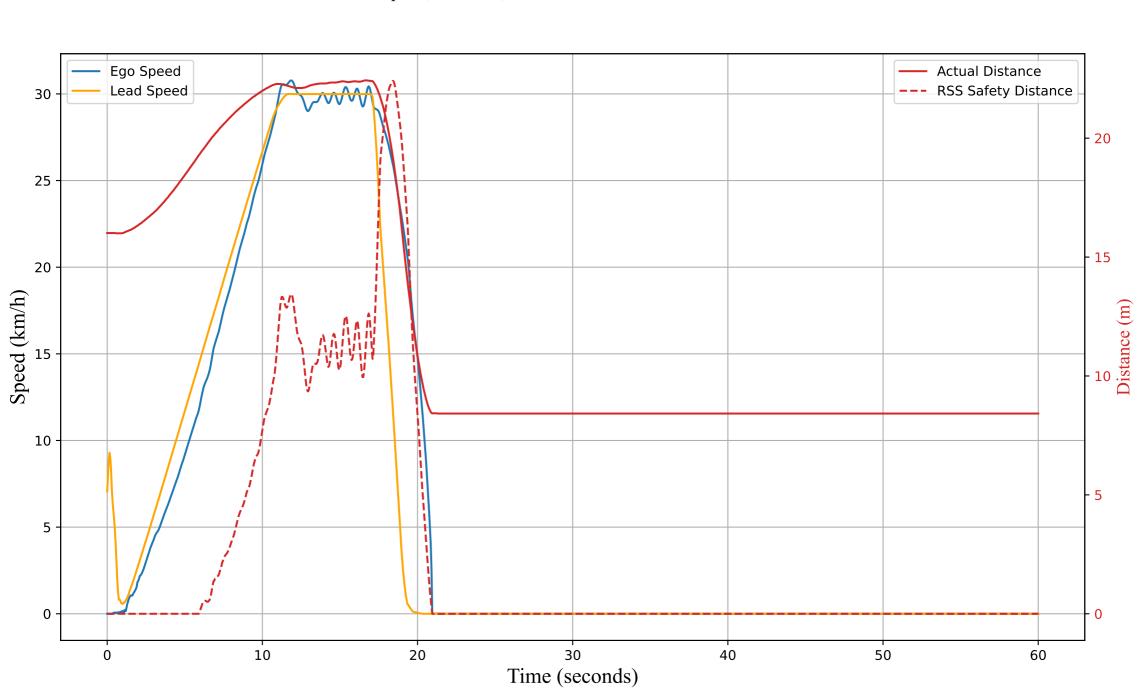
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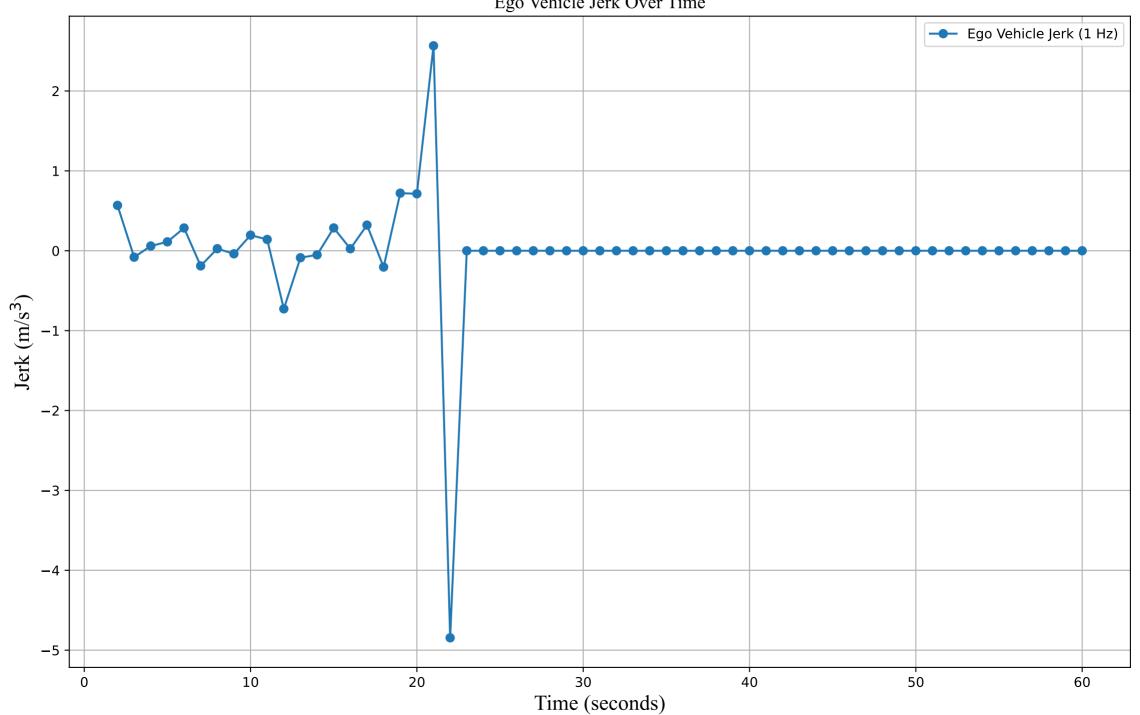


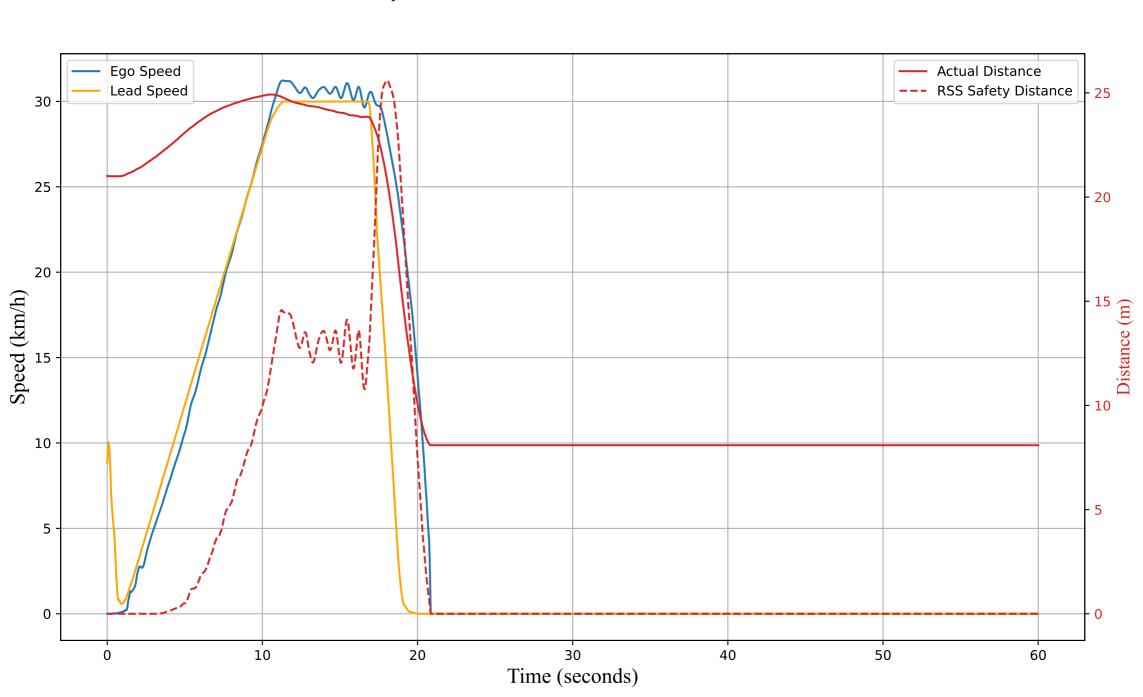
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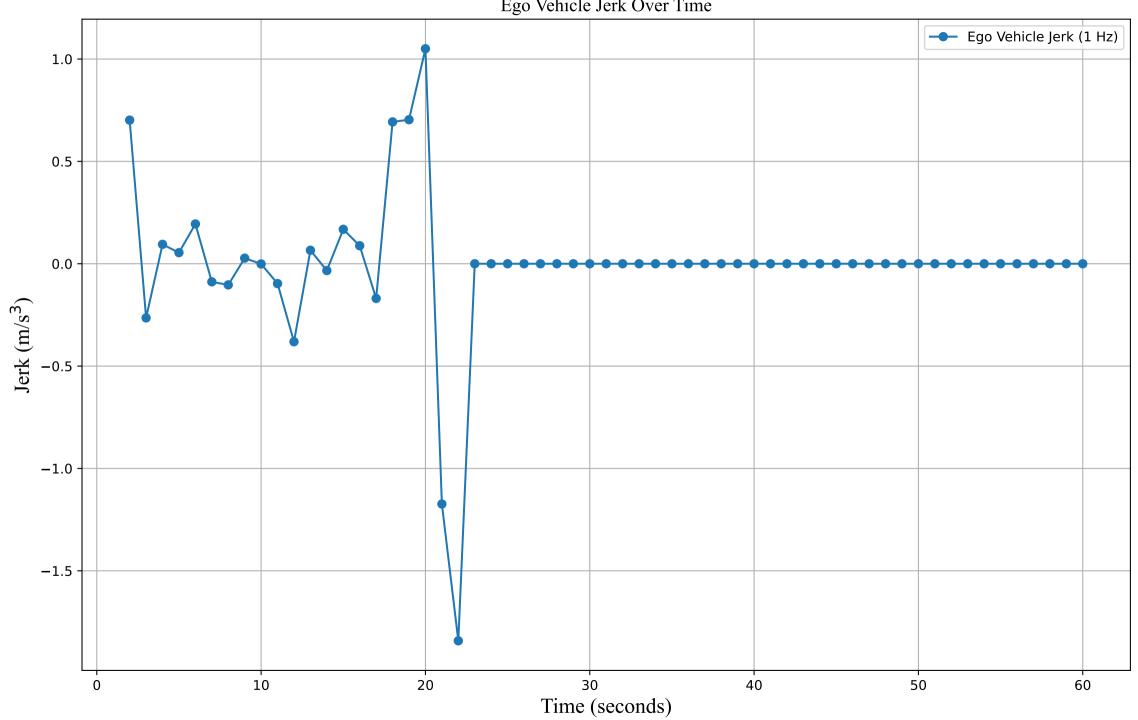


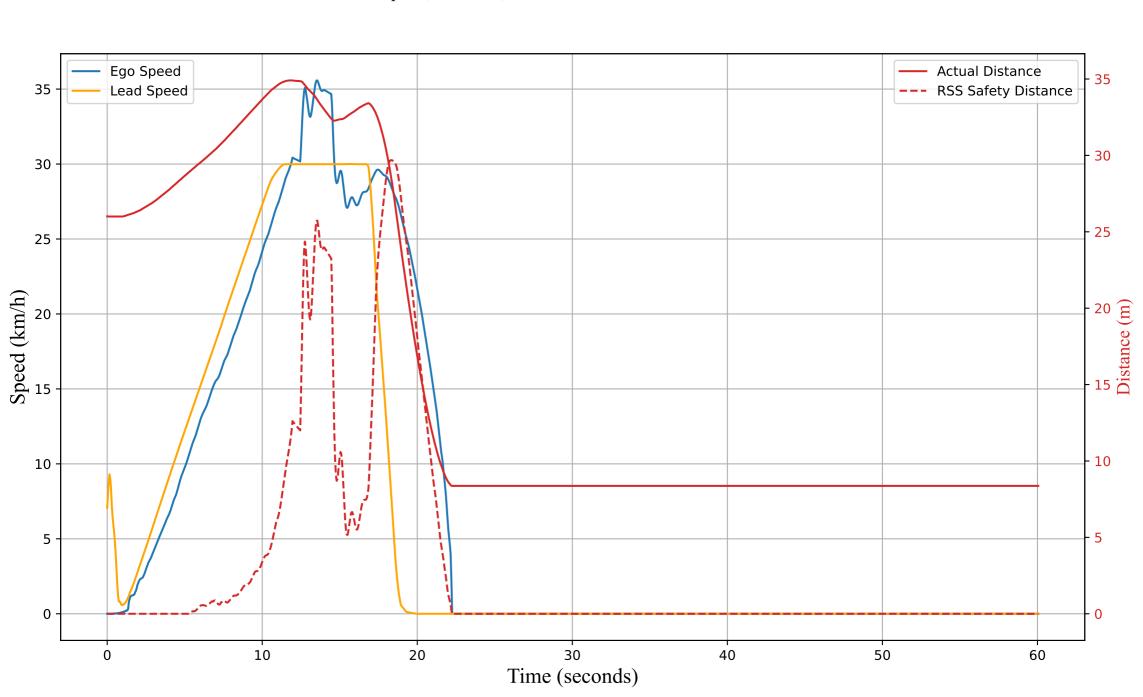
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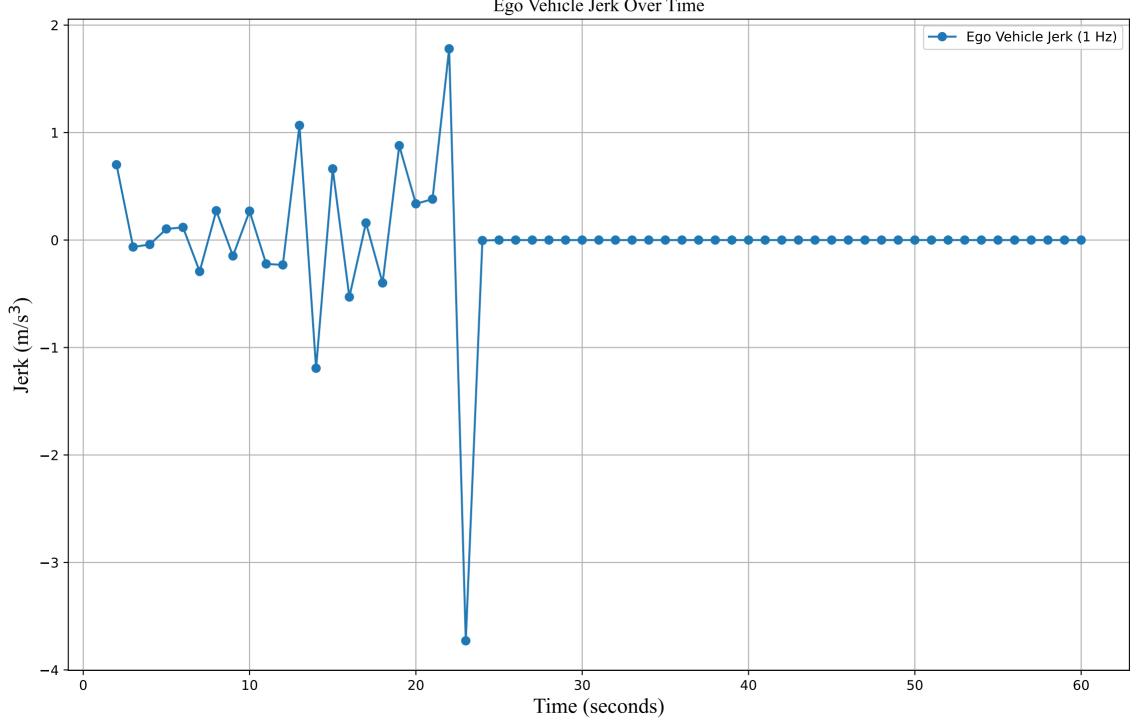


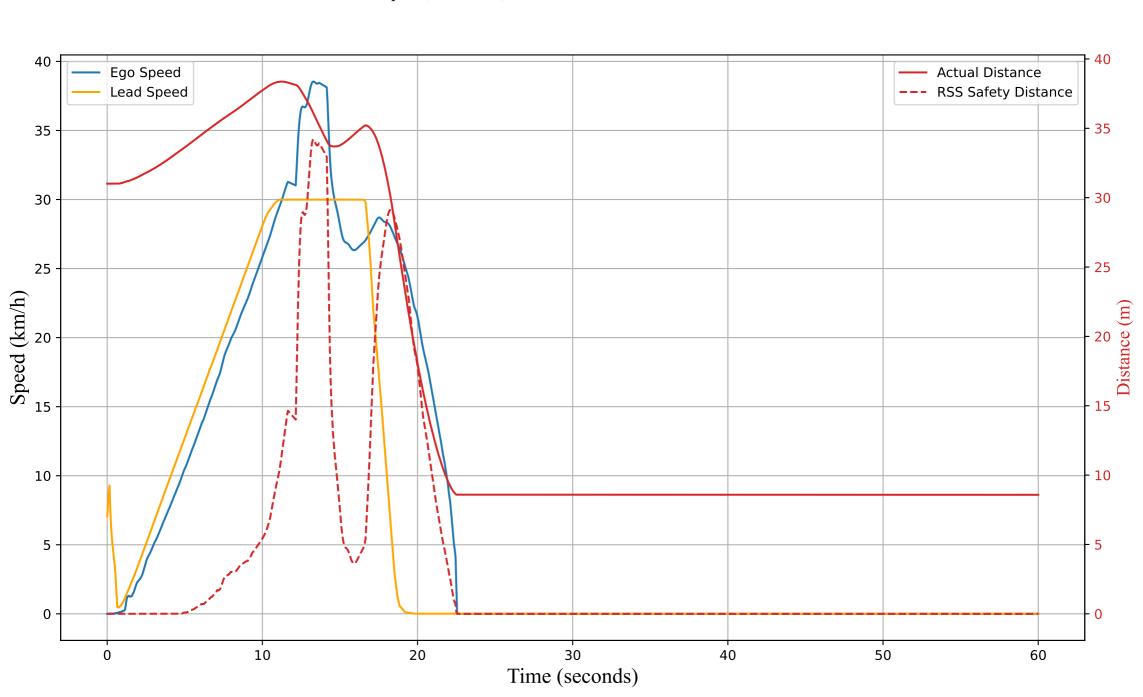
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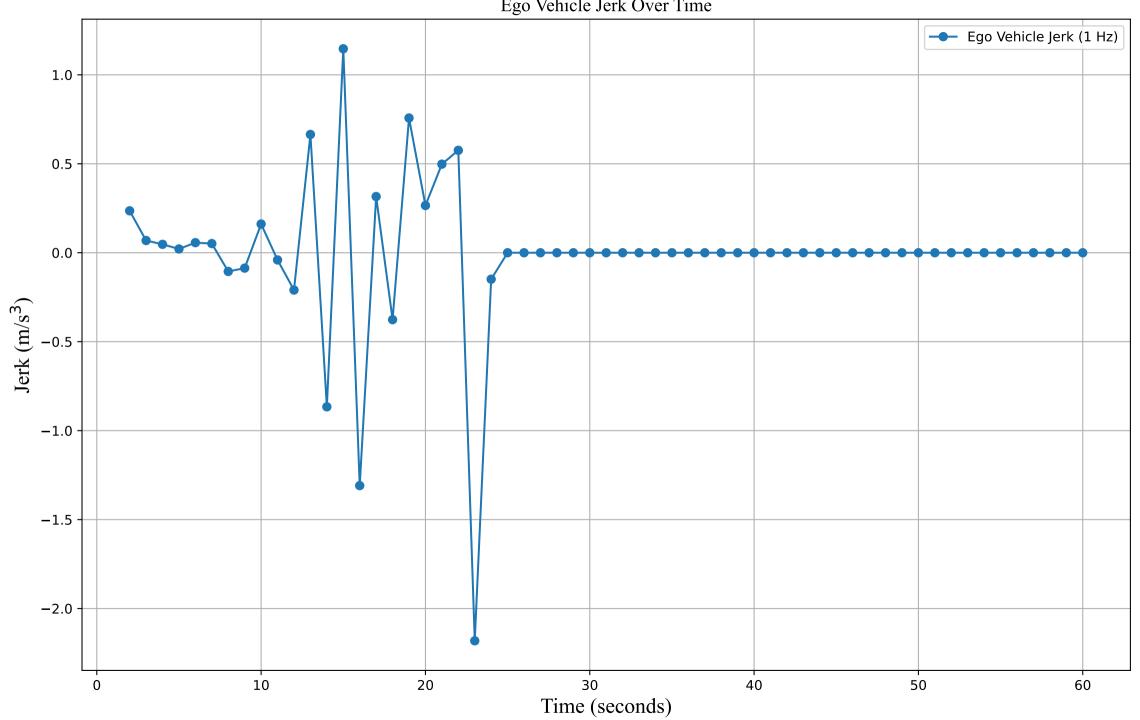


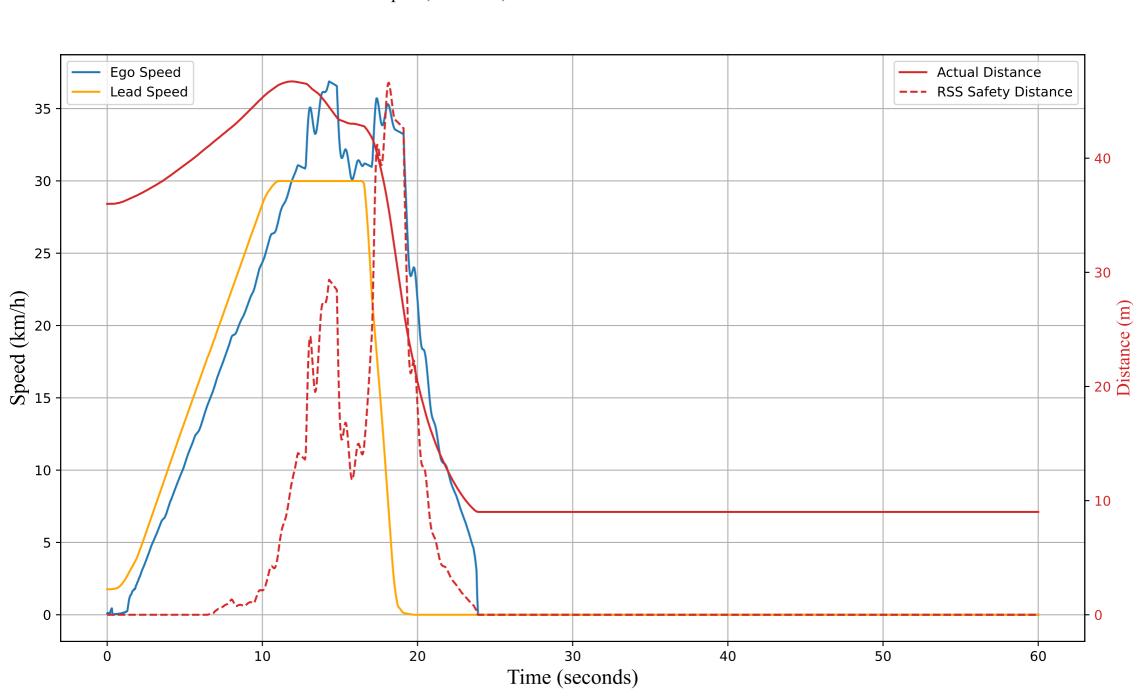
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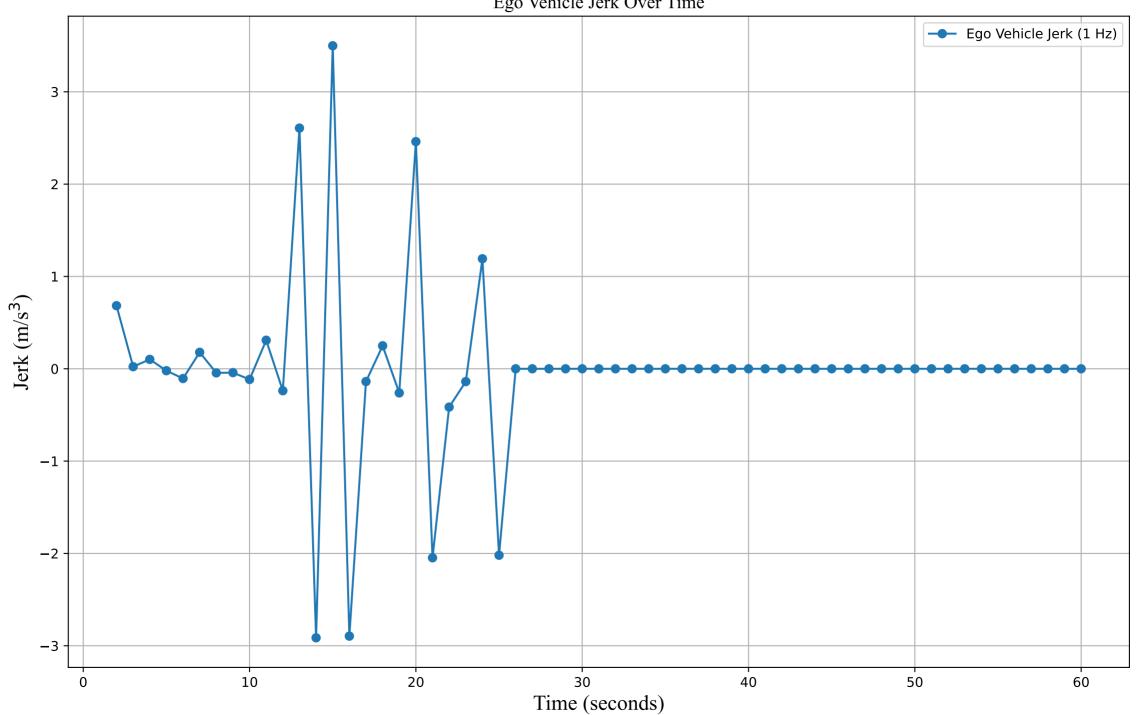


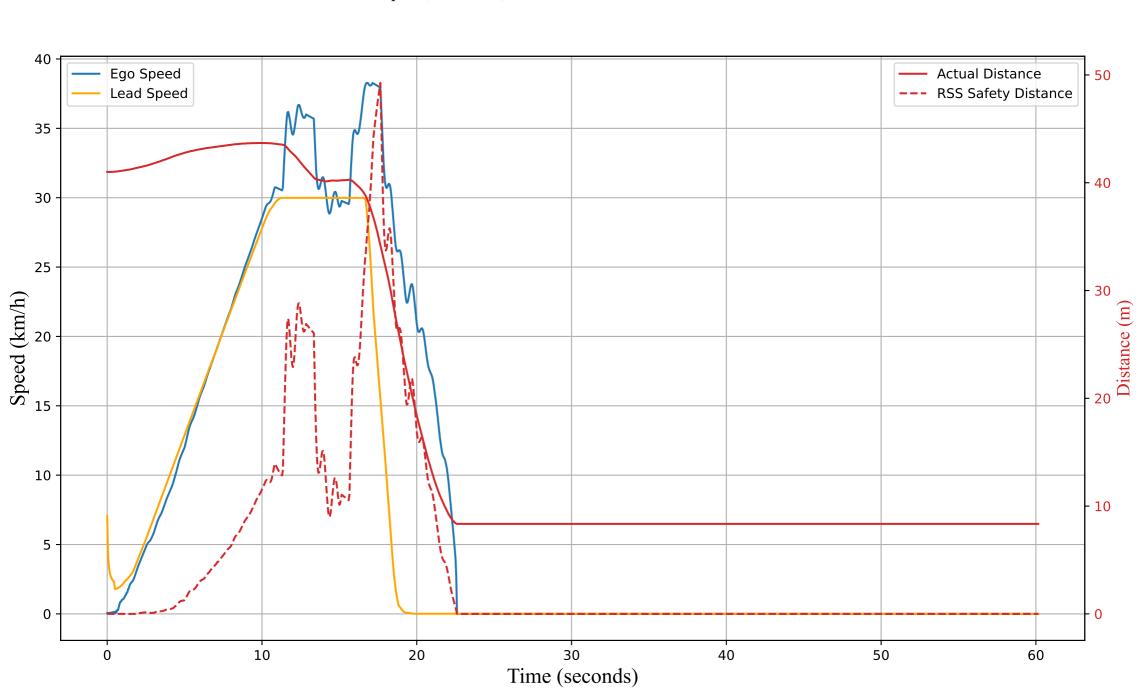
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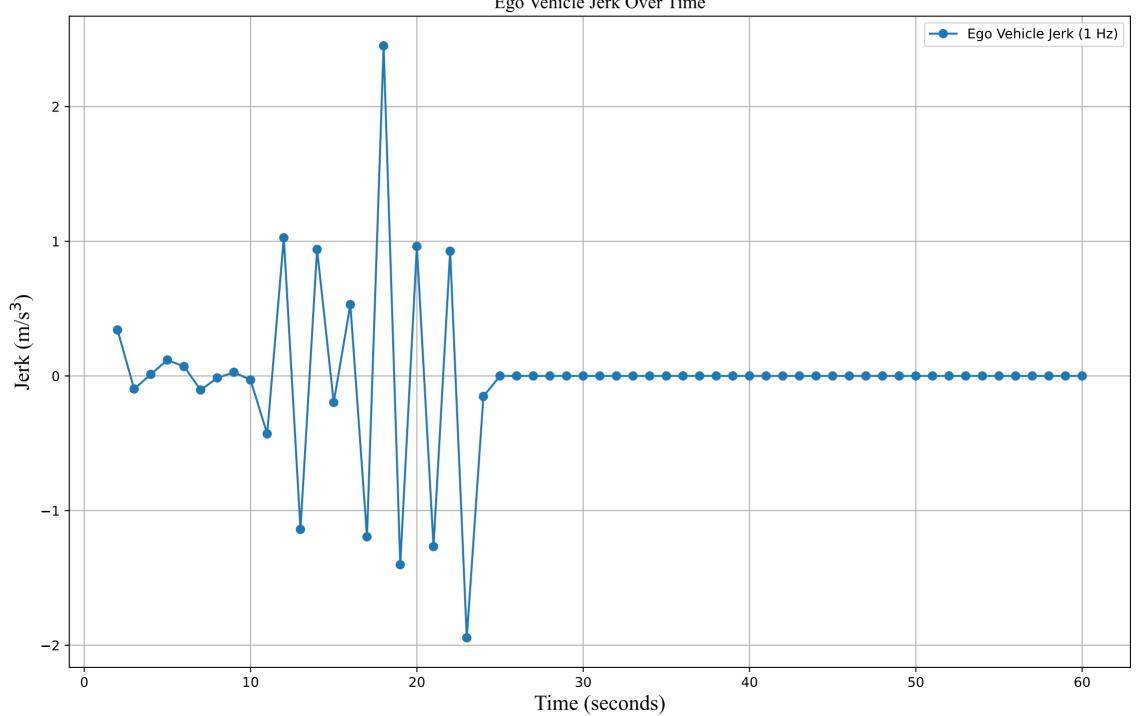


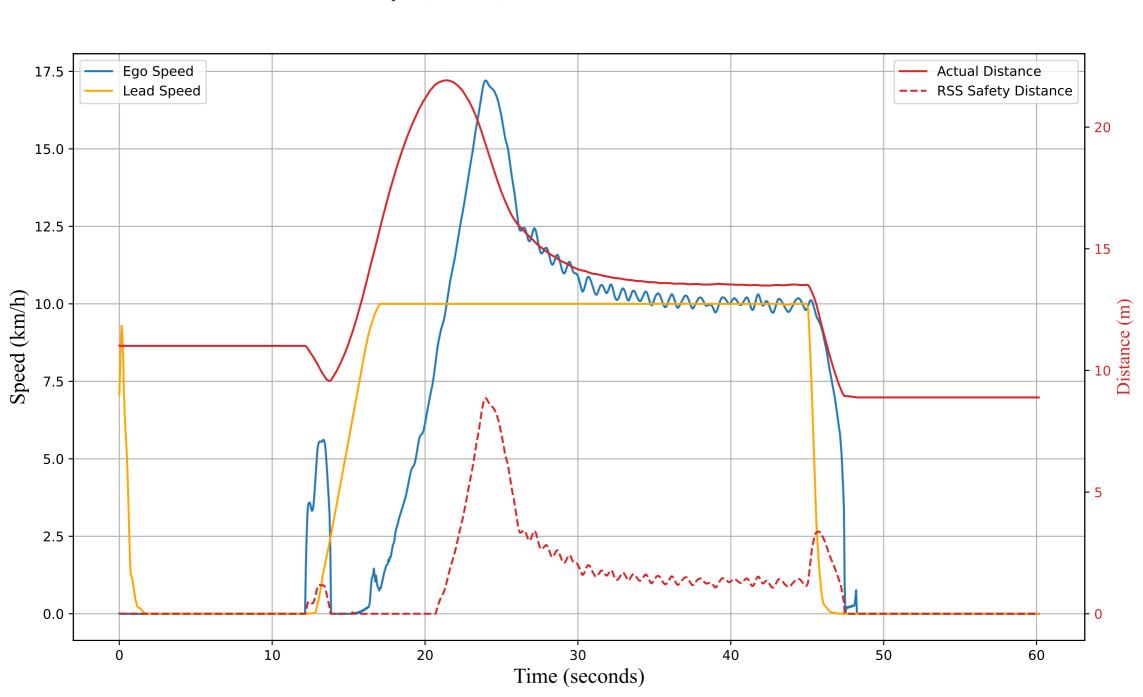
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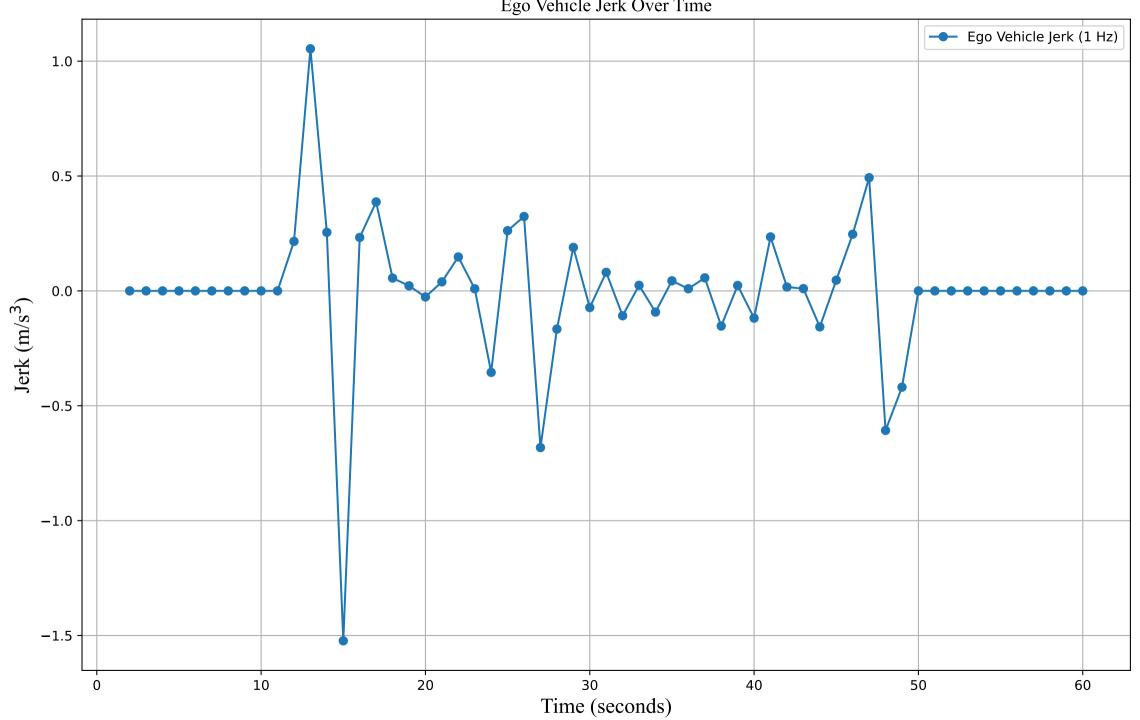


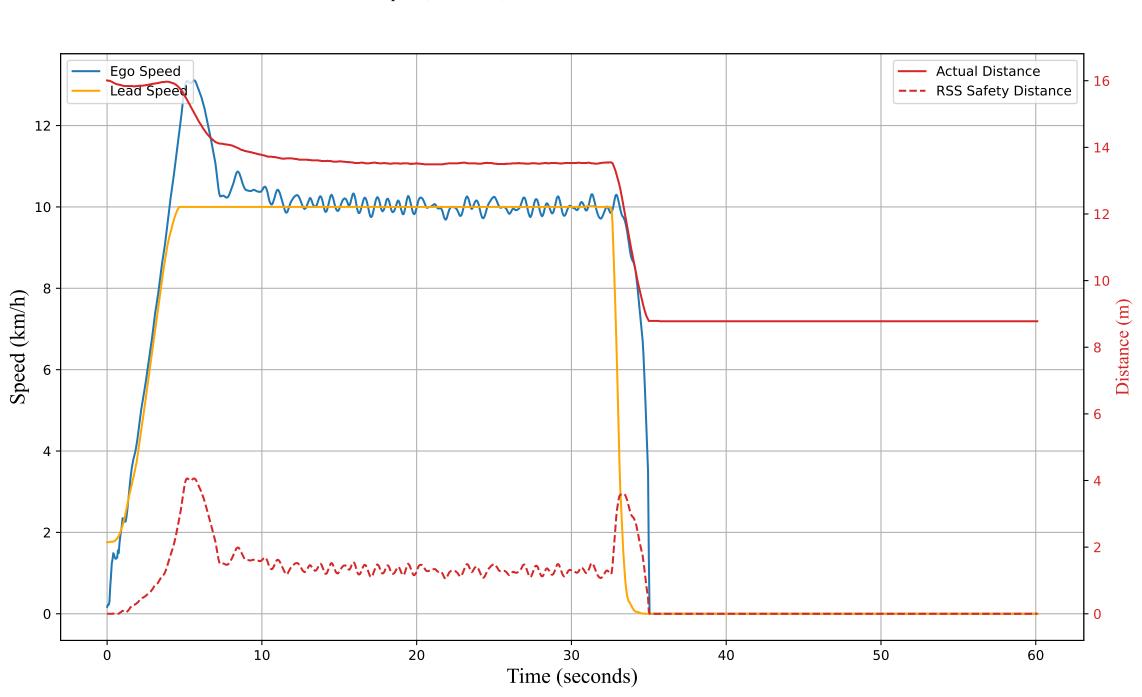
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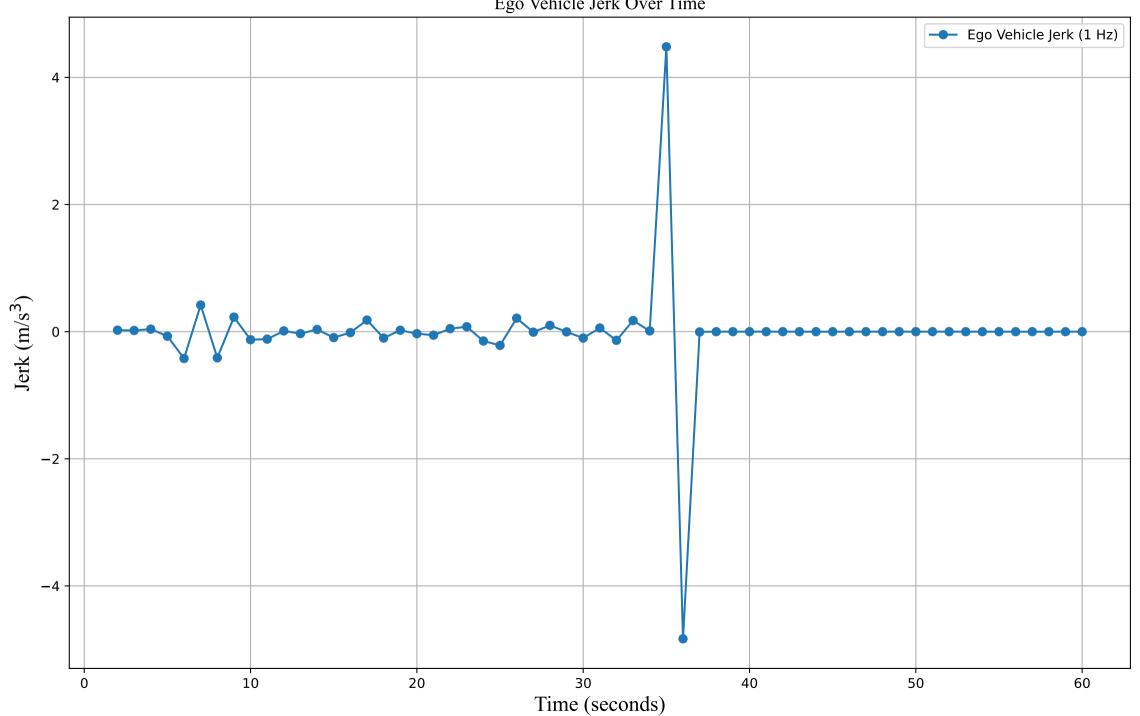


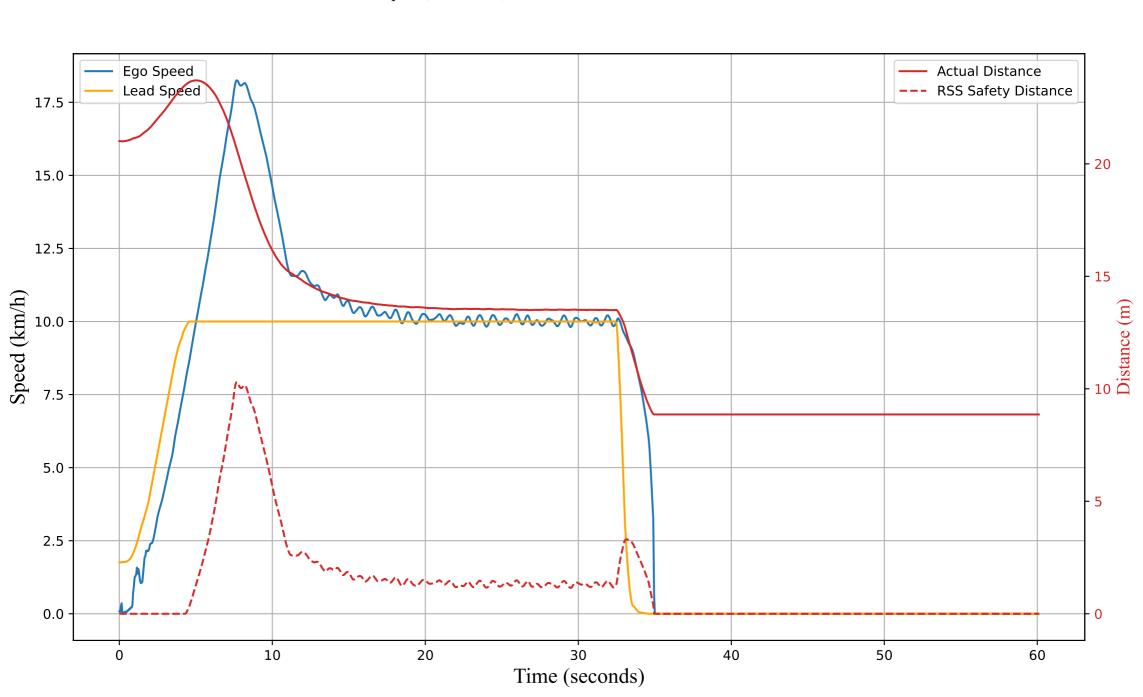
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=10 m Ego Vehicle Jerk Over Time



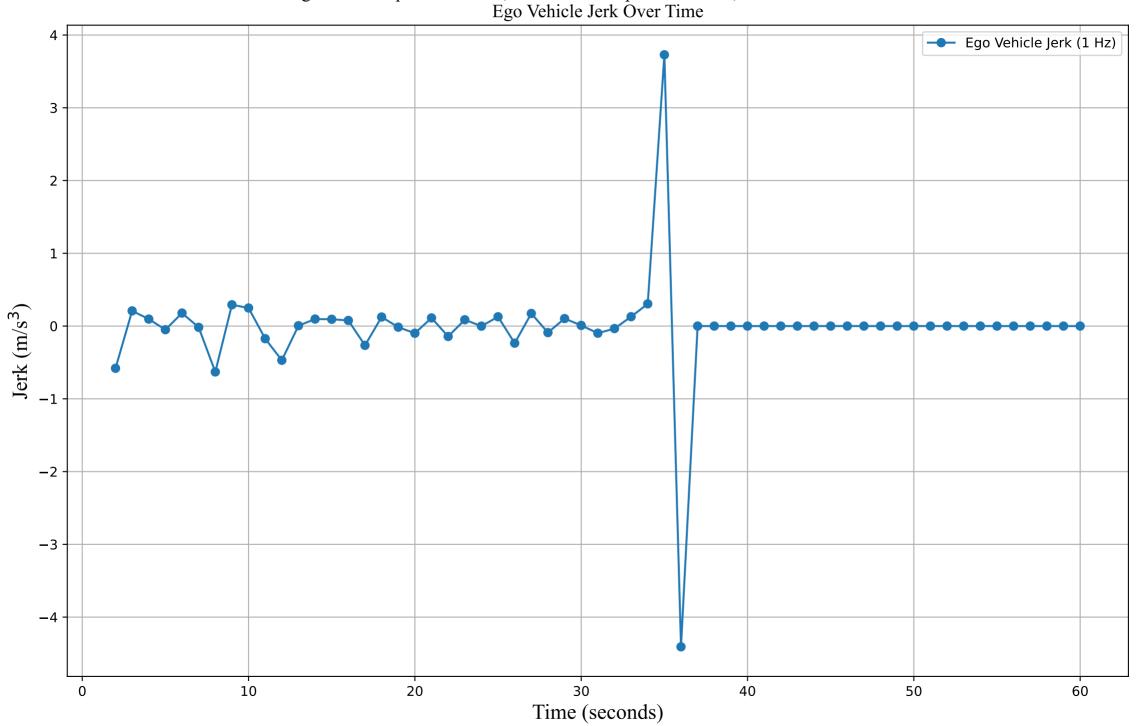


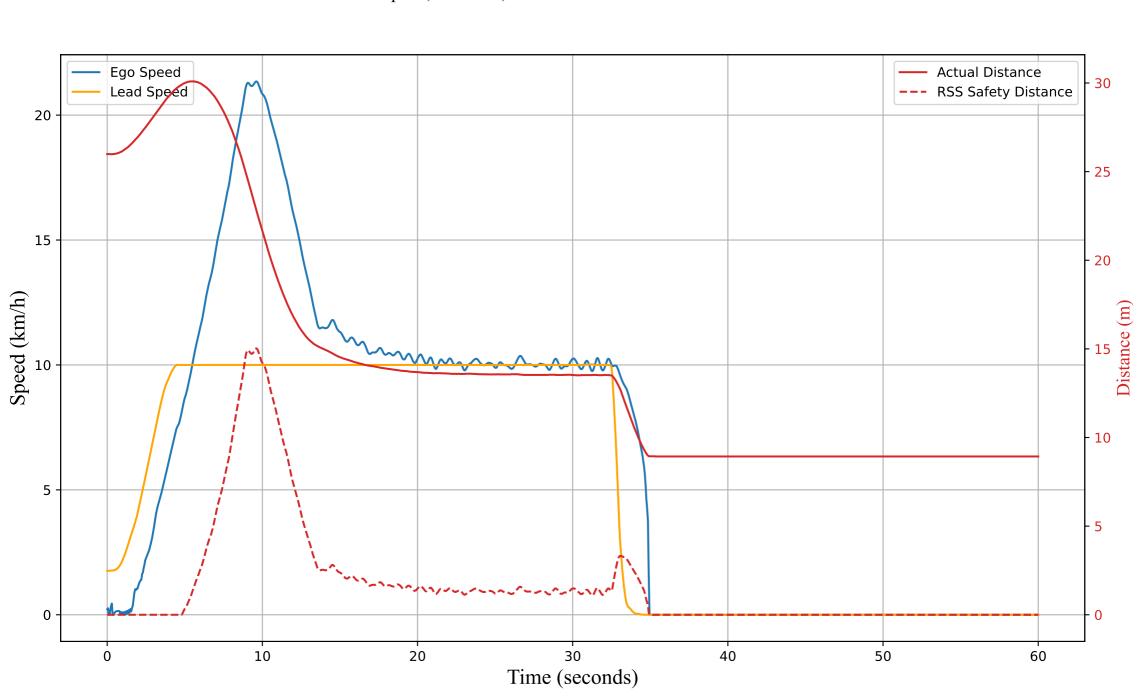
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



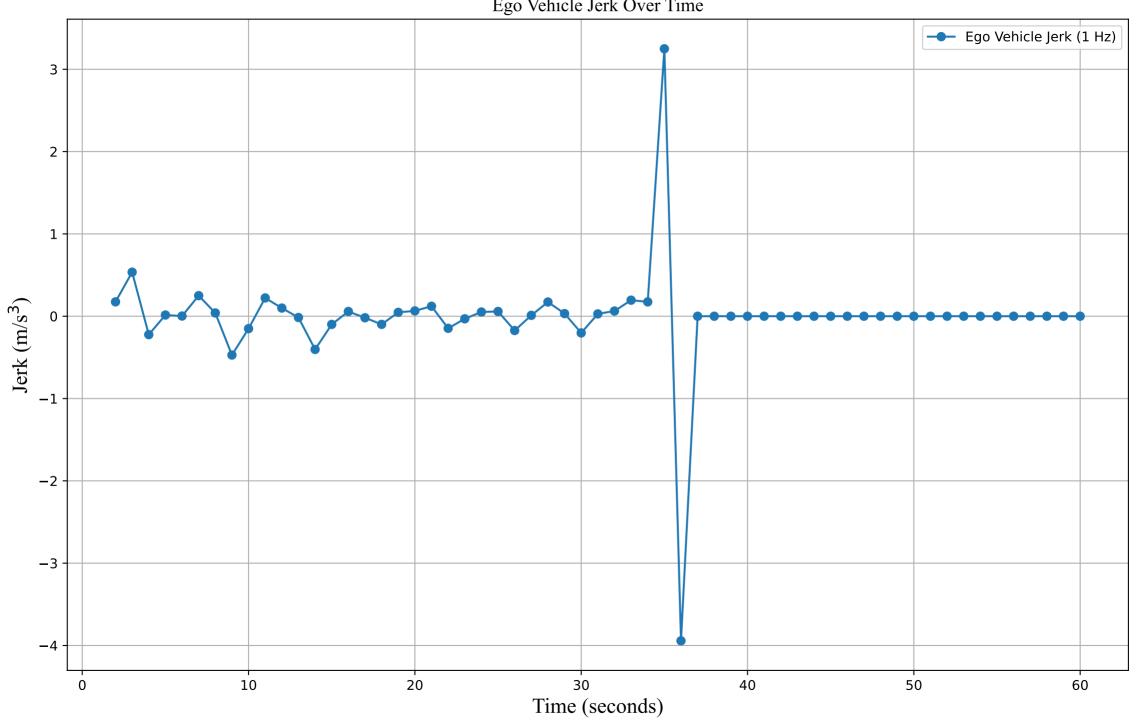


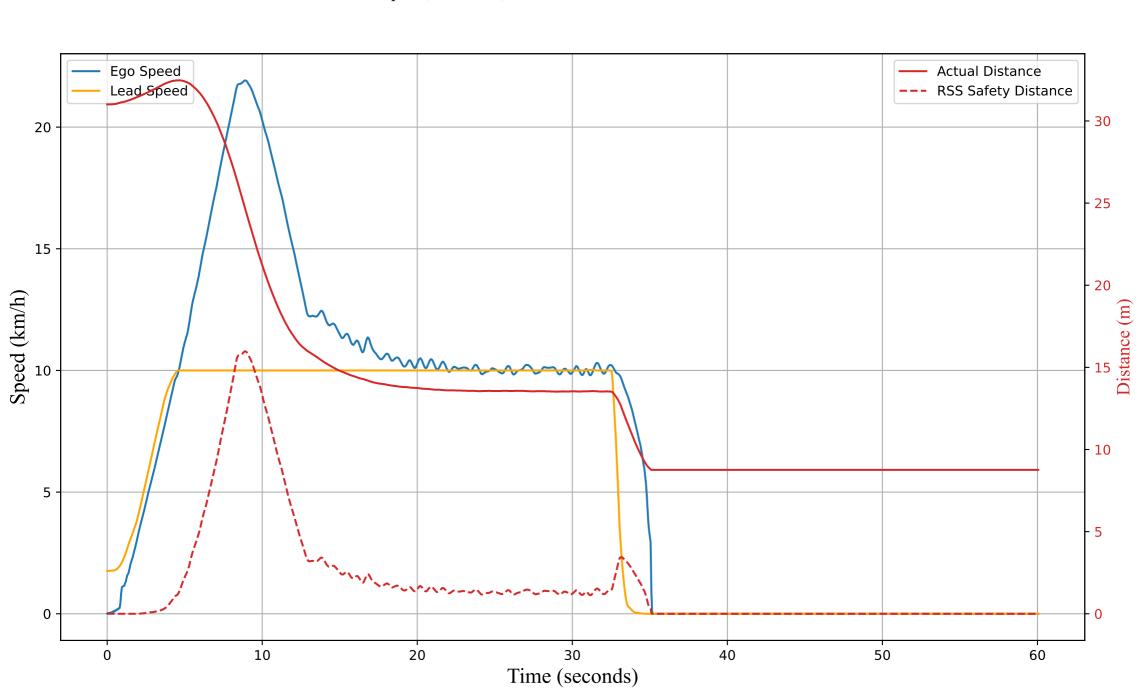
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=20 m Ego Vehicle Jerk Over Time



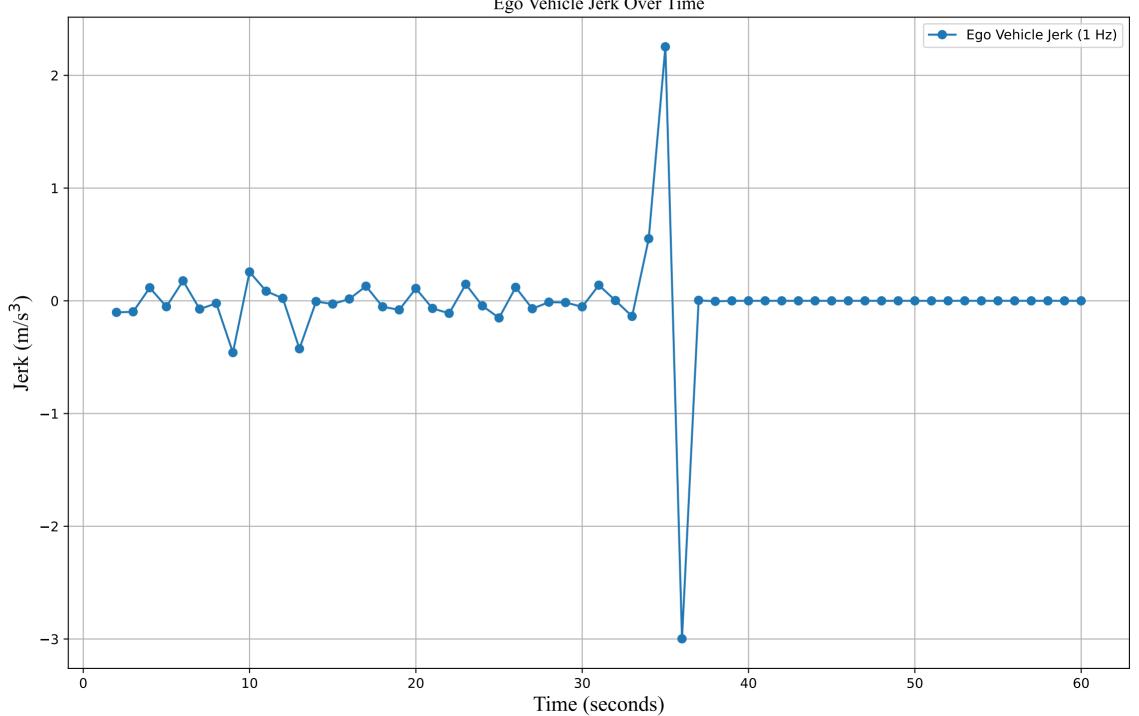


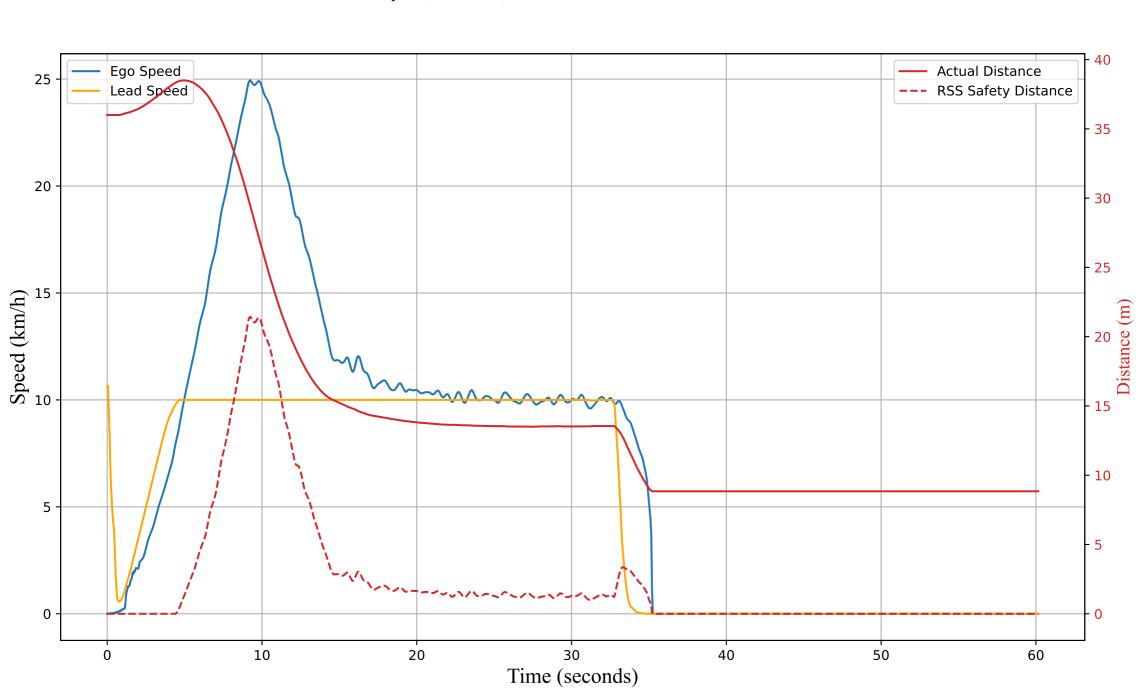
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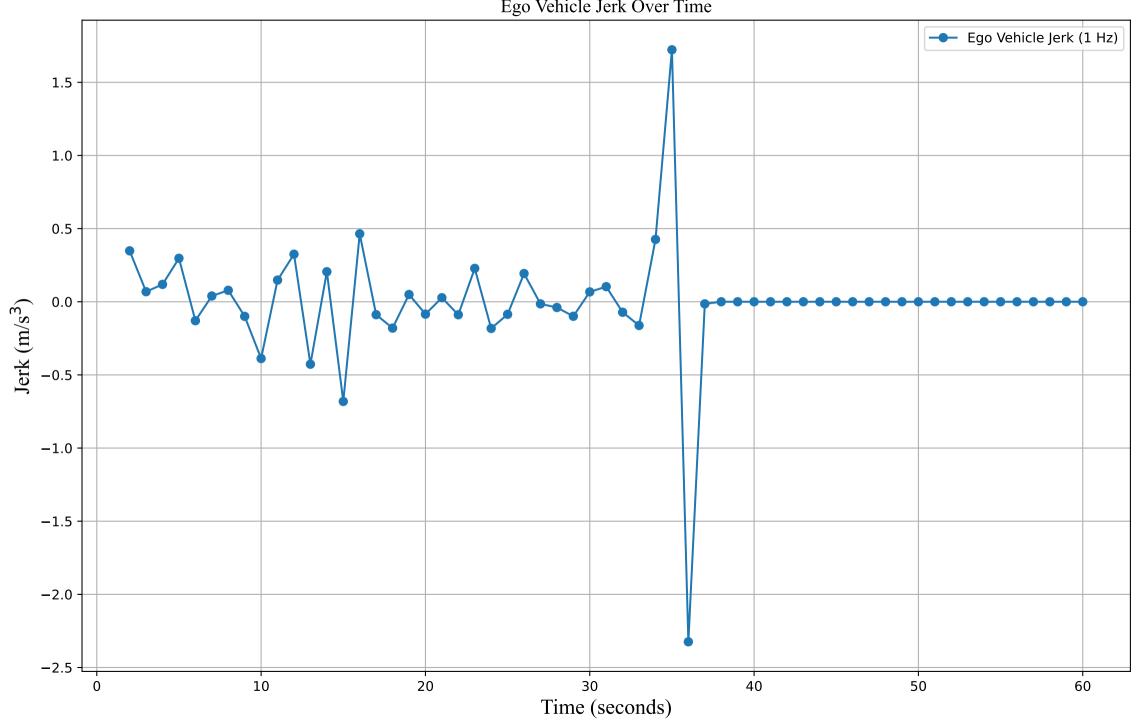


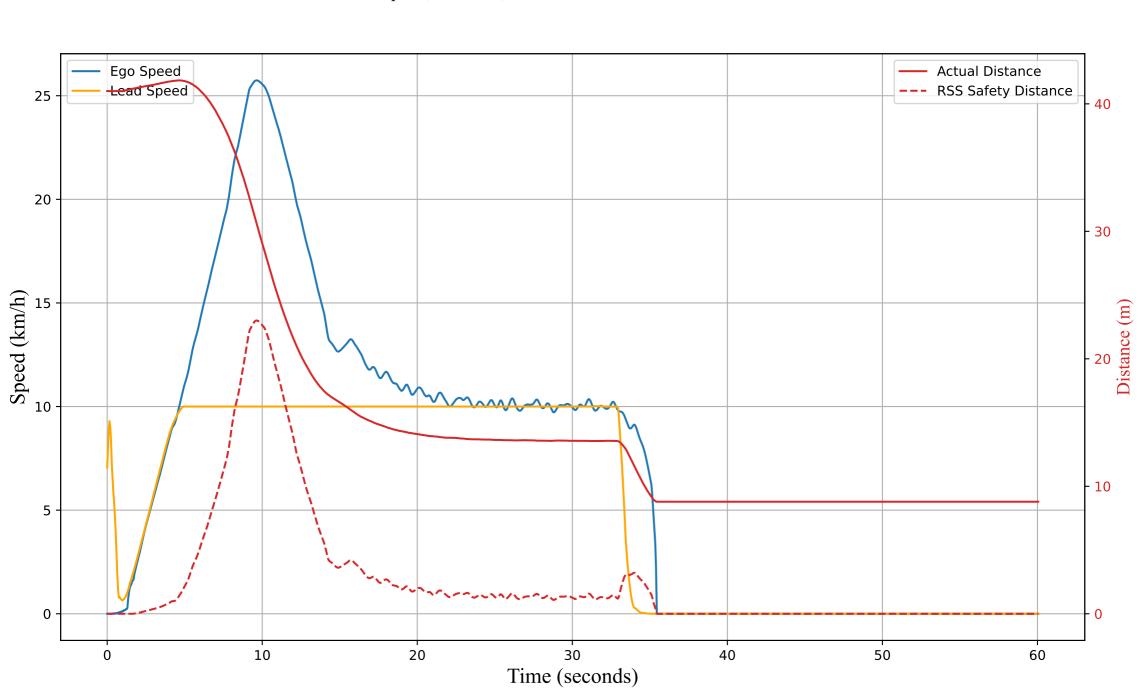
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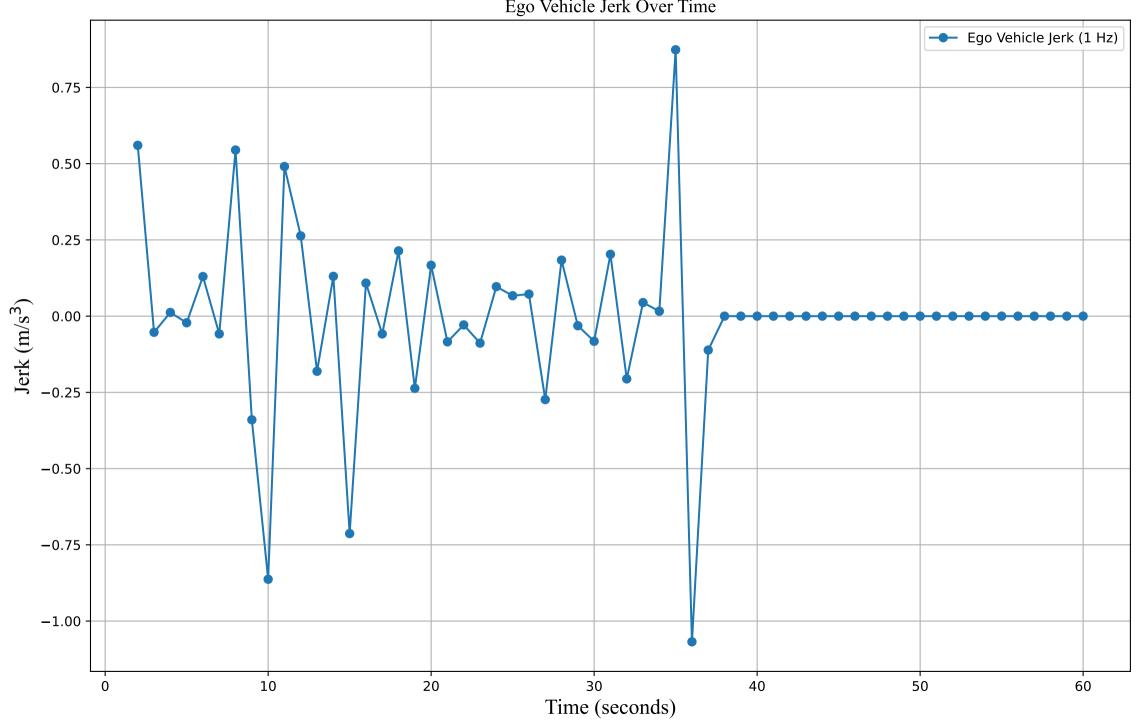


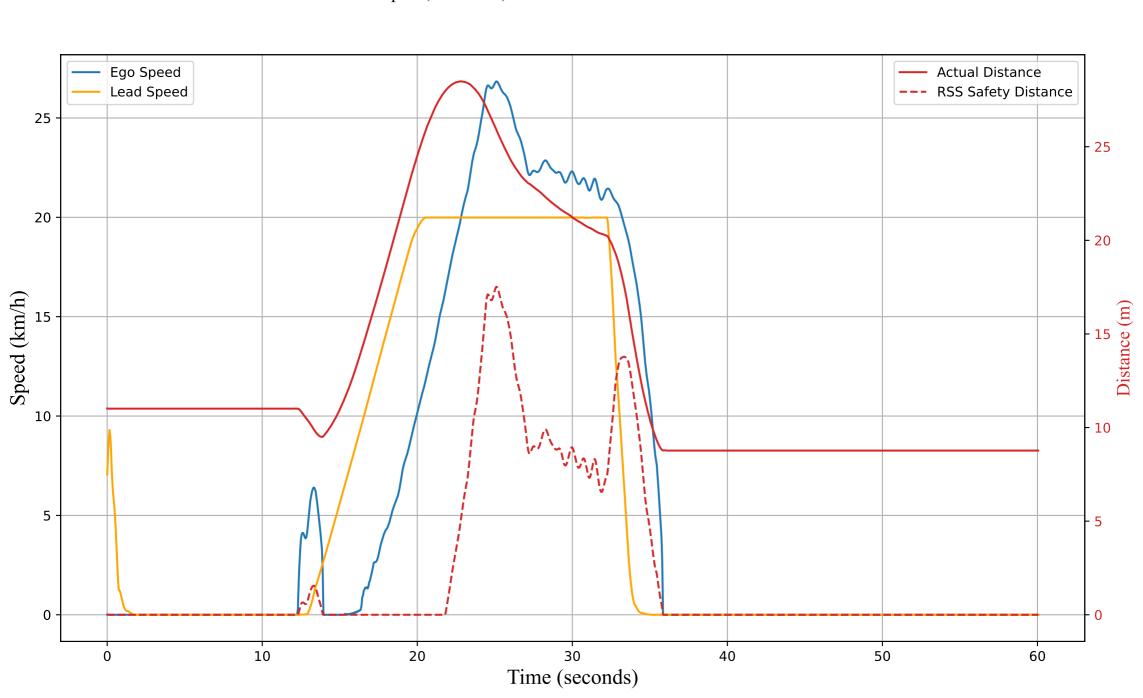
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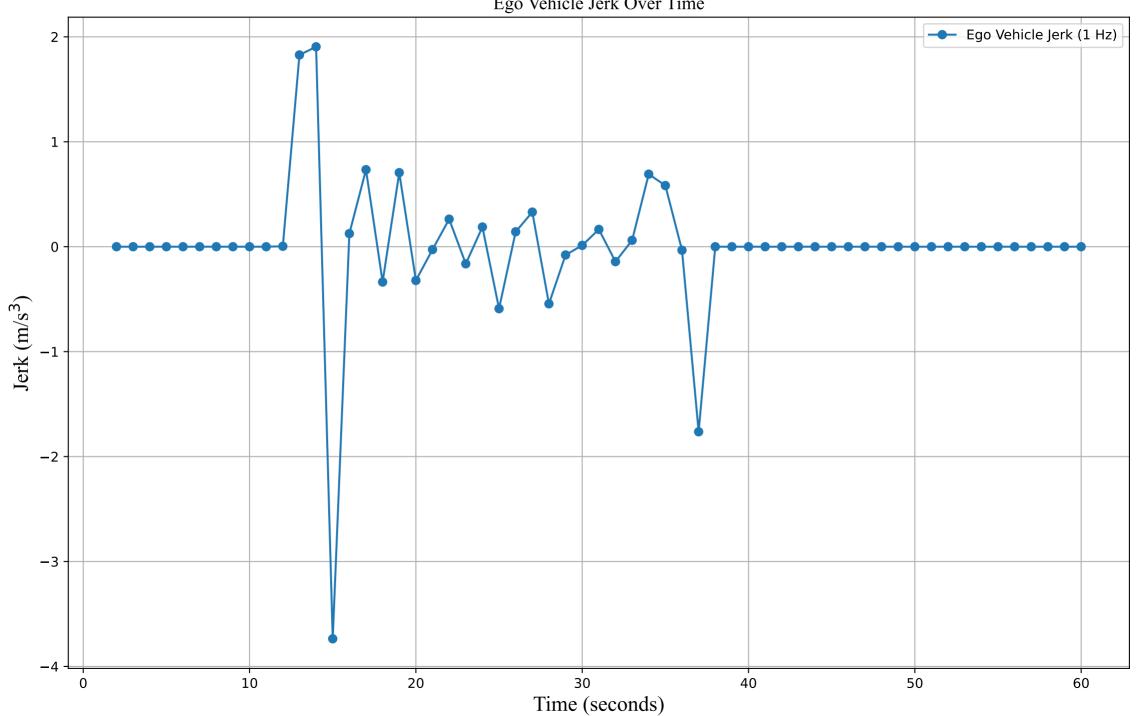


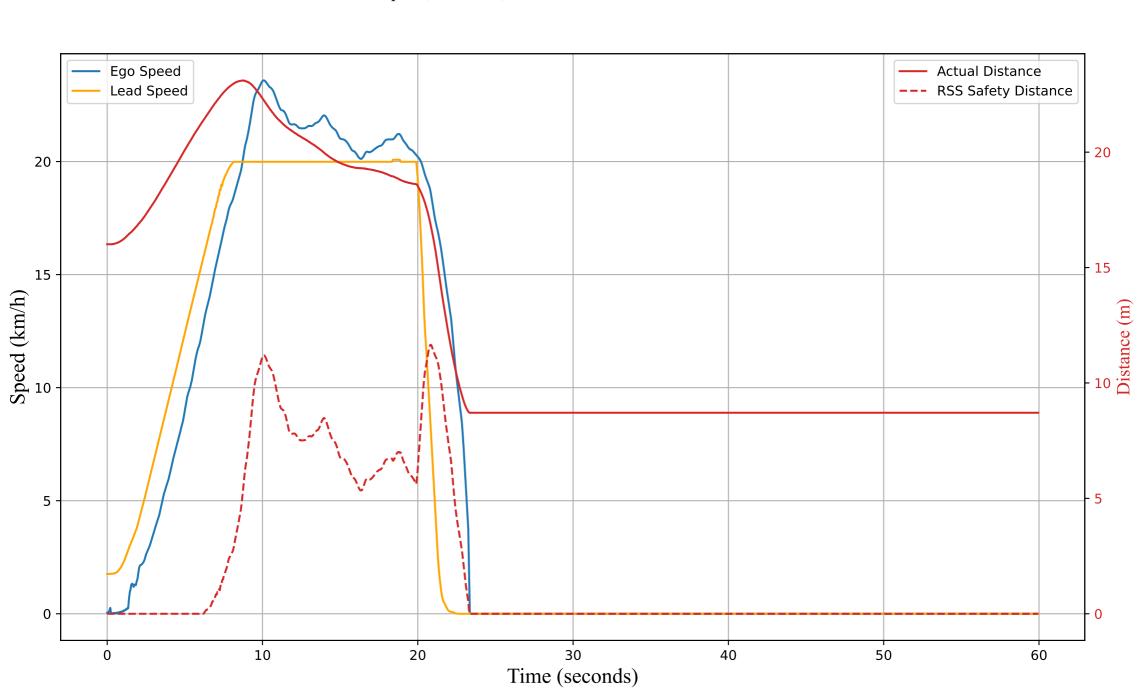
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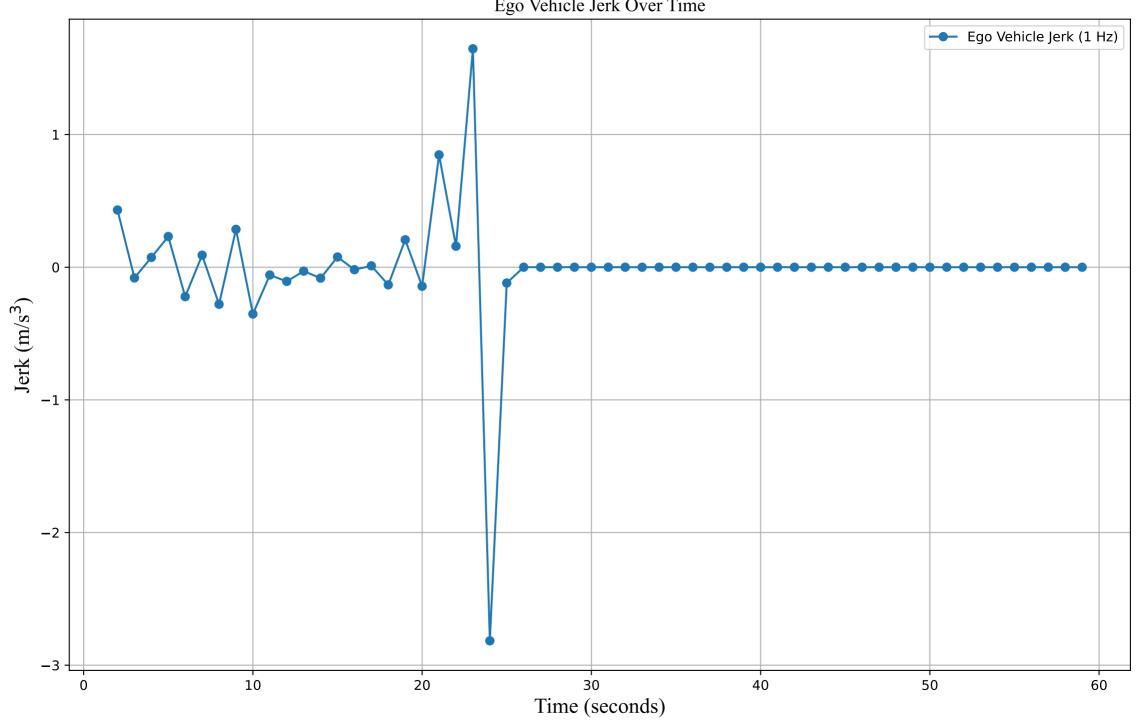


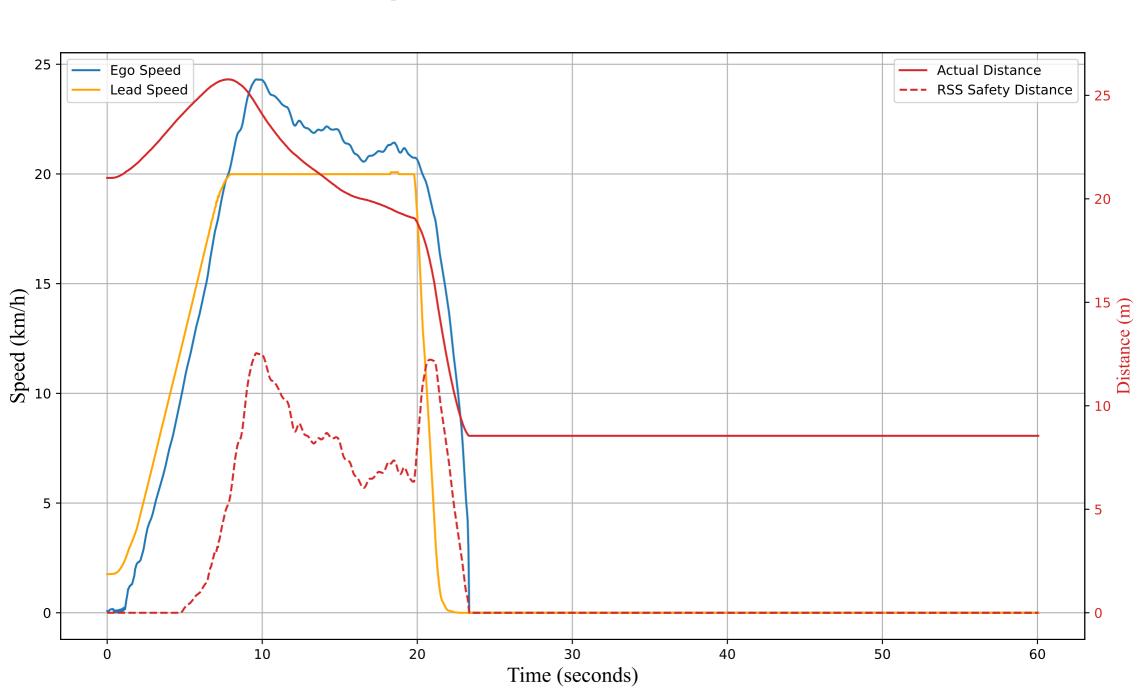
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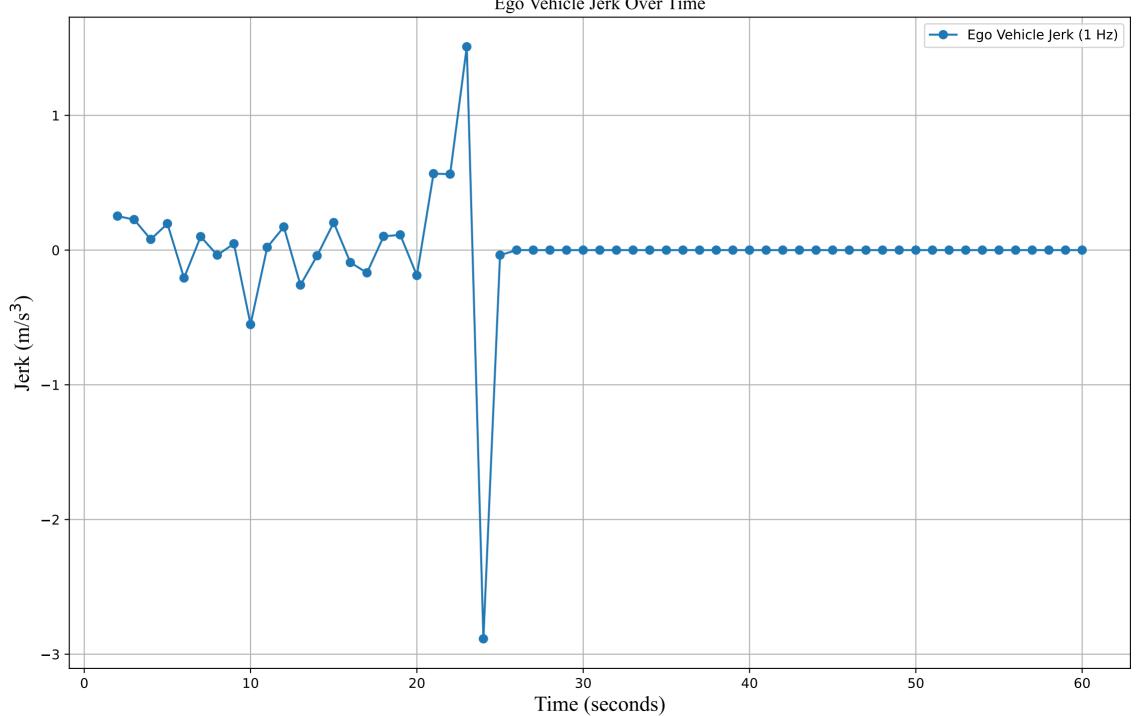


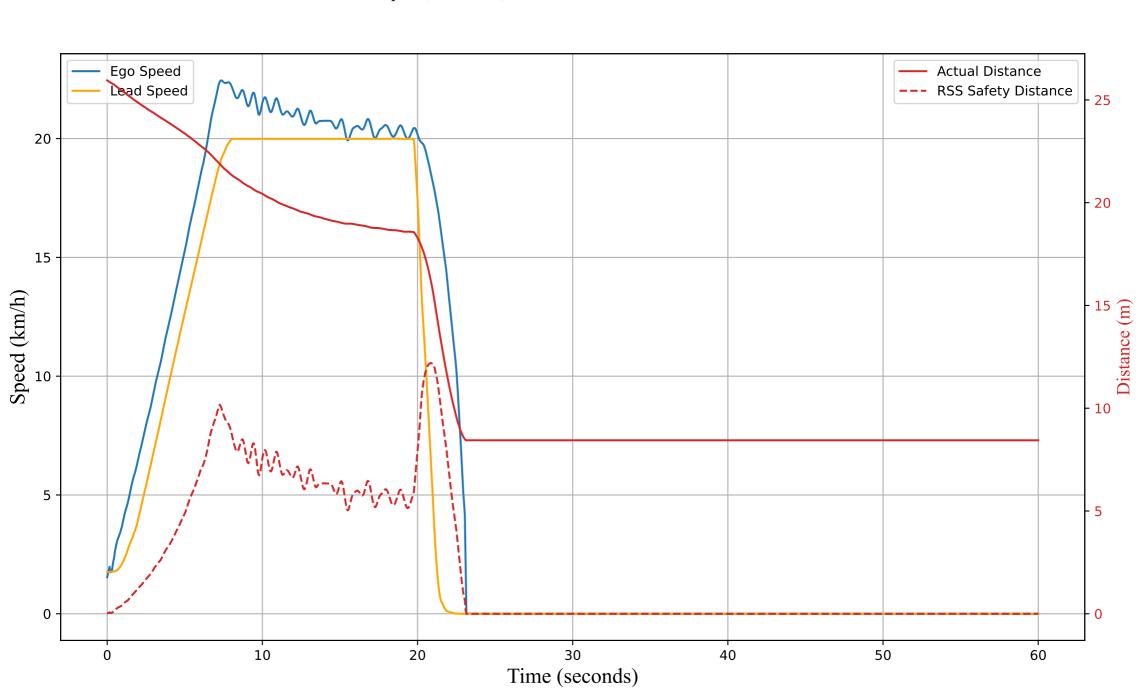
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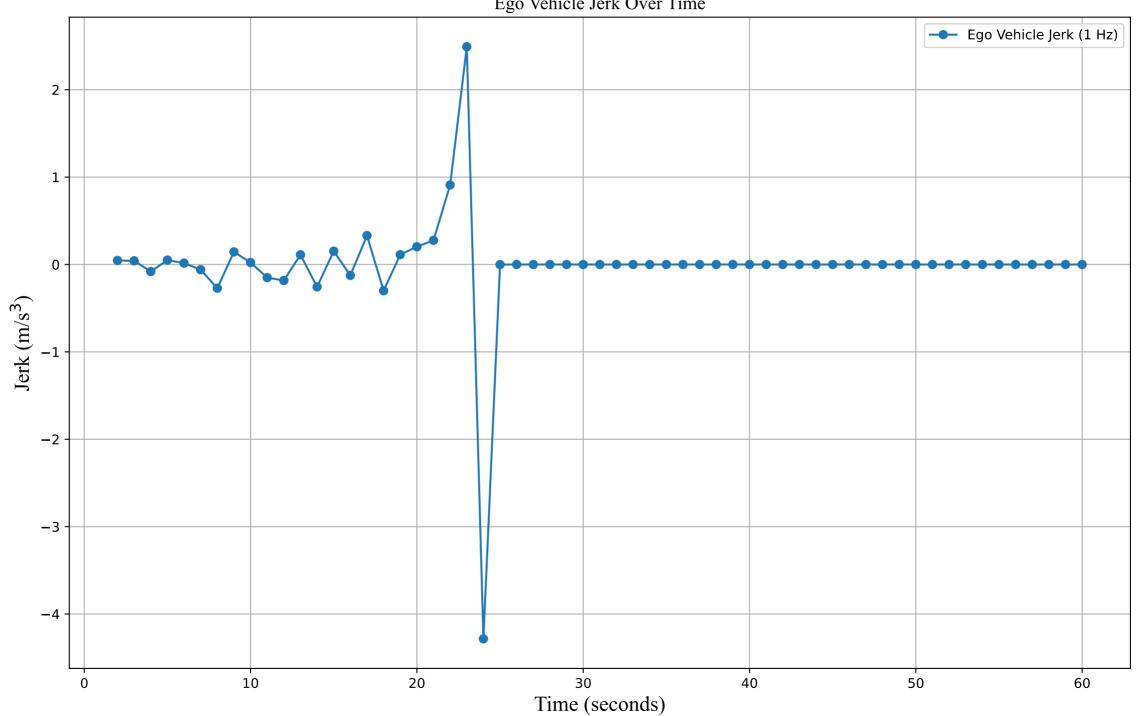


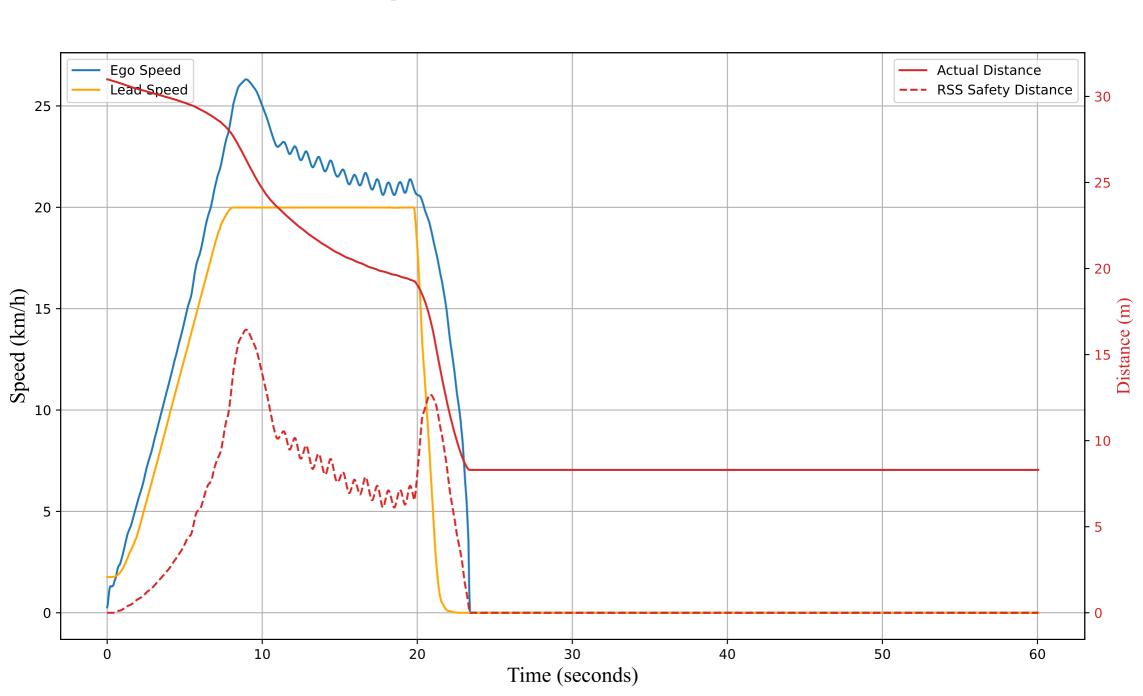
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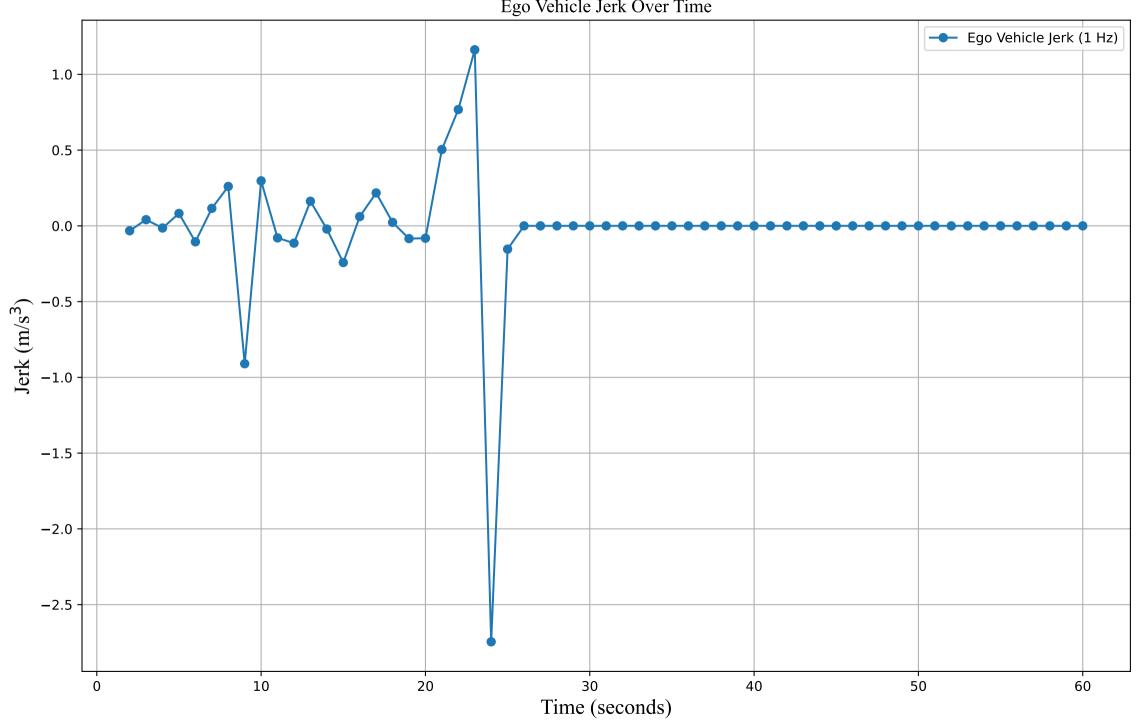


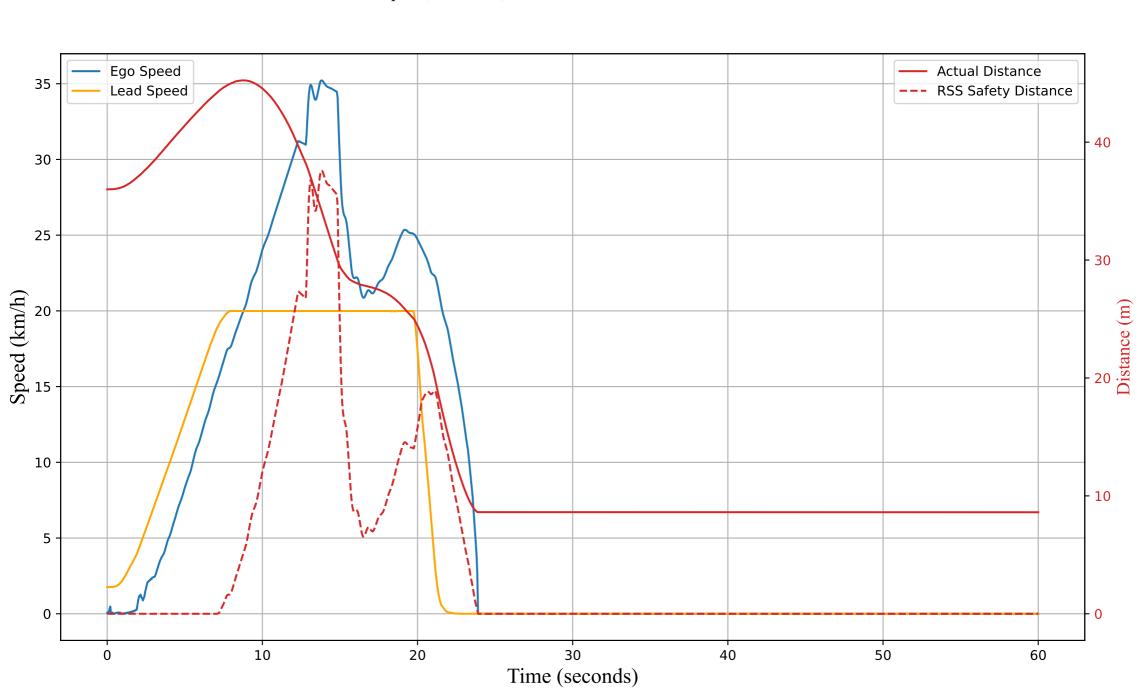
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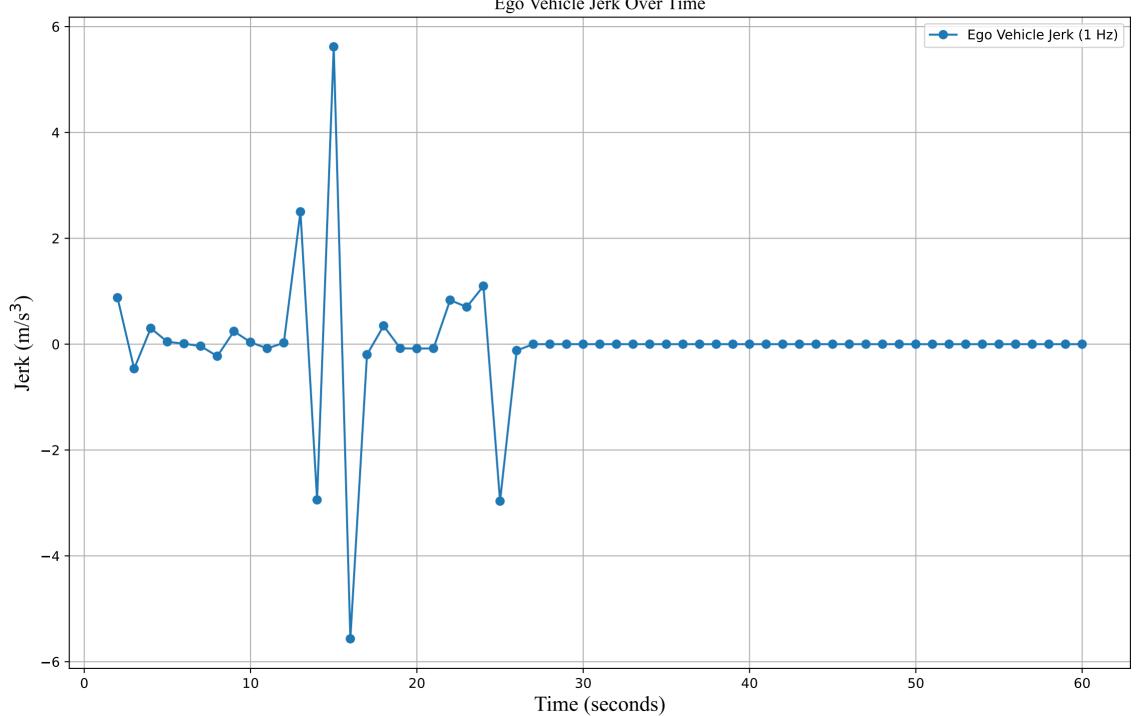


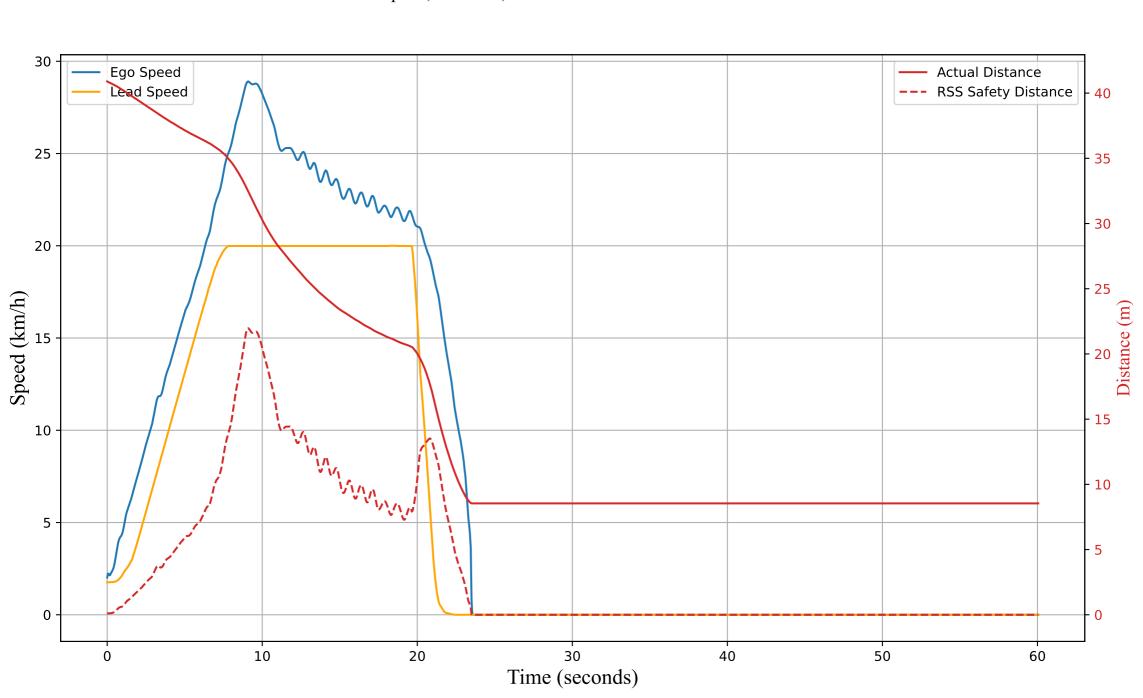
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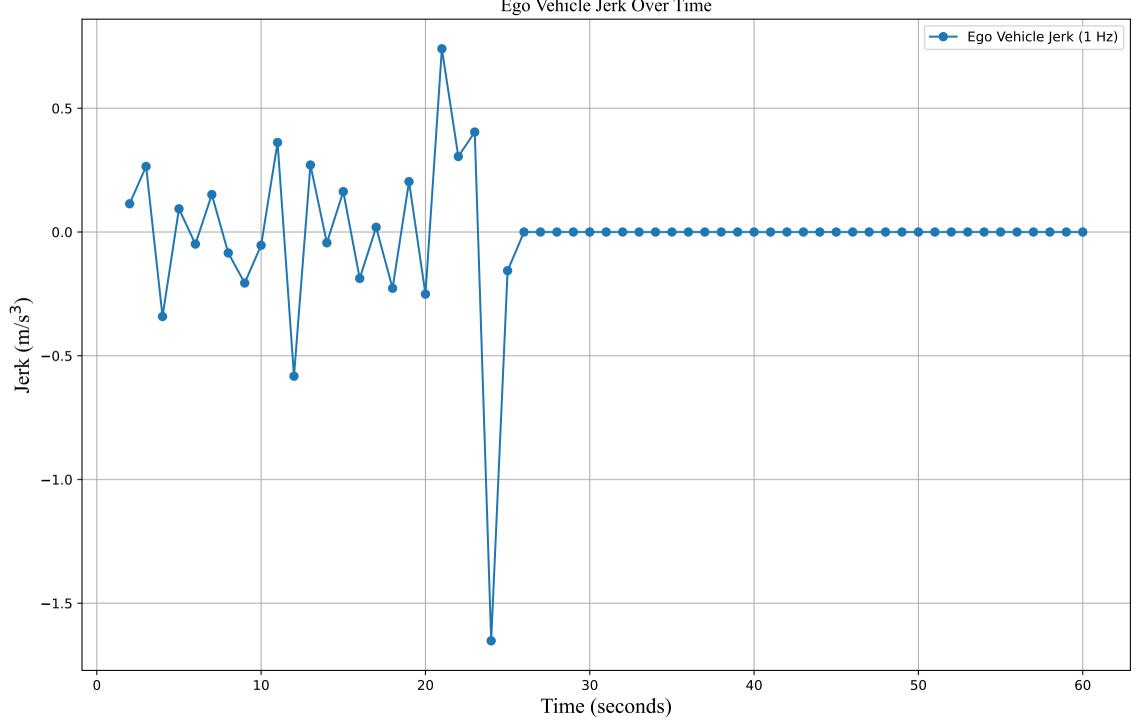


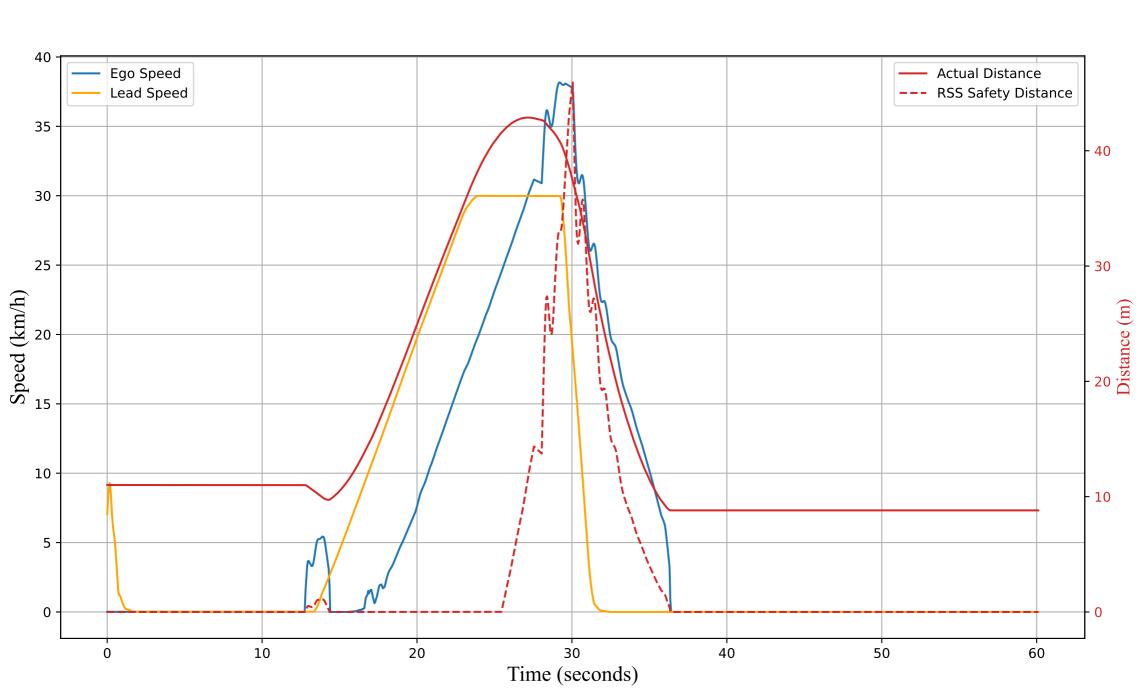
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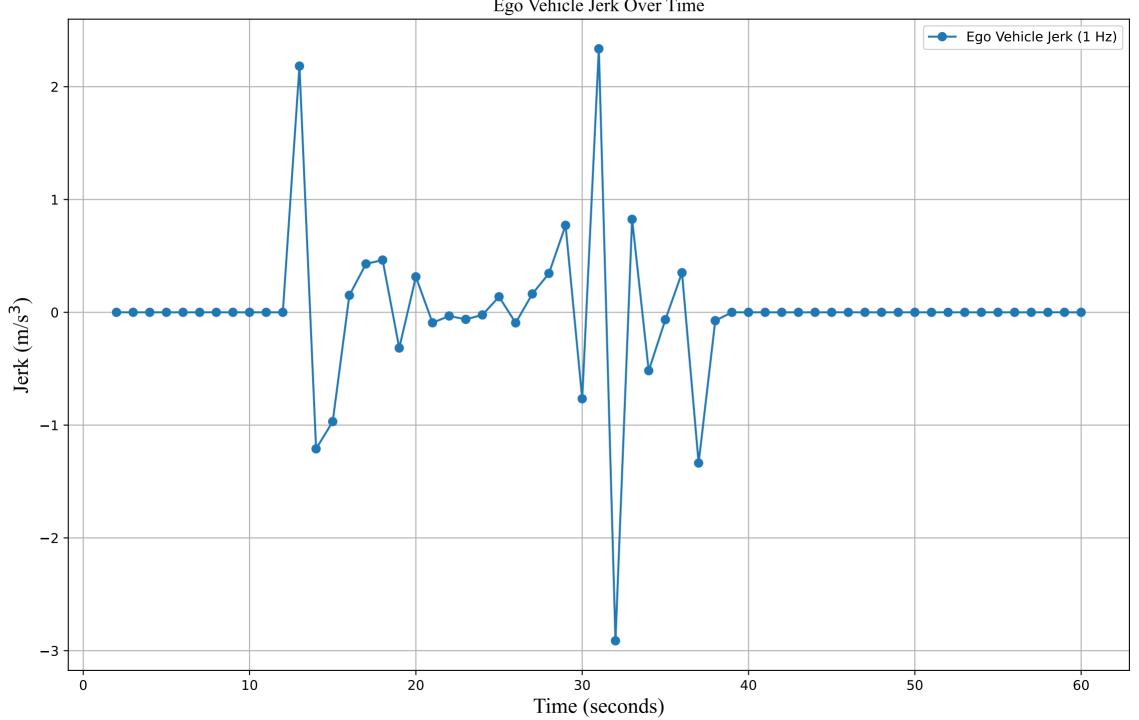


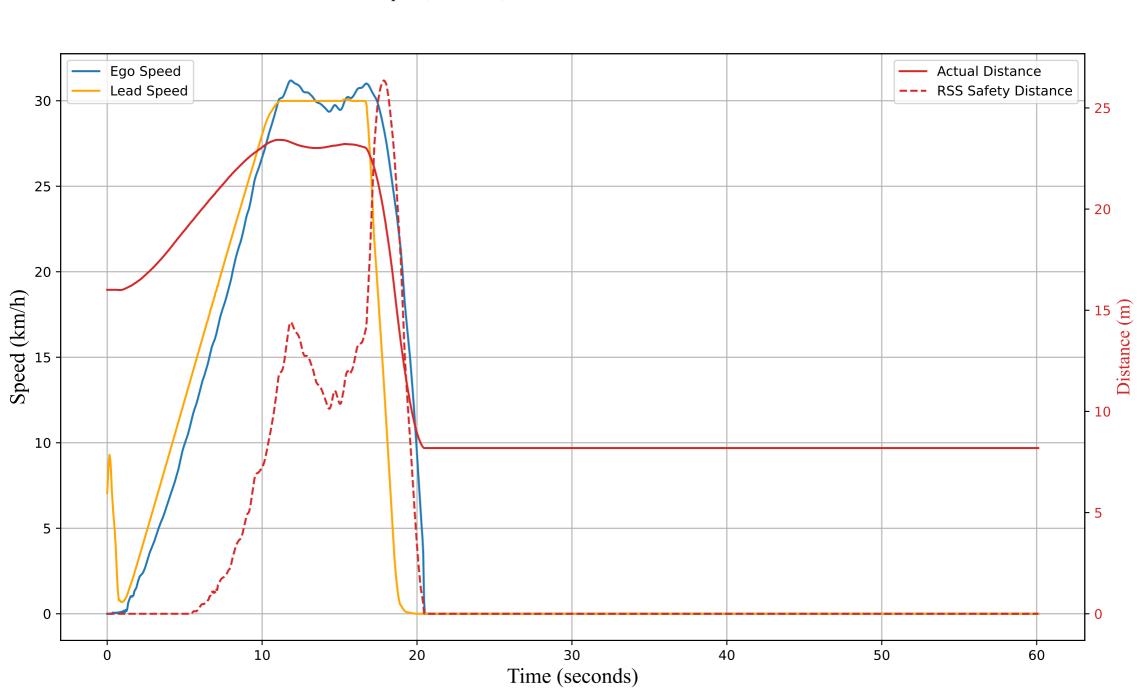
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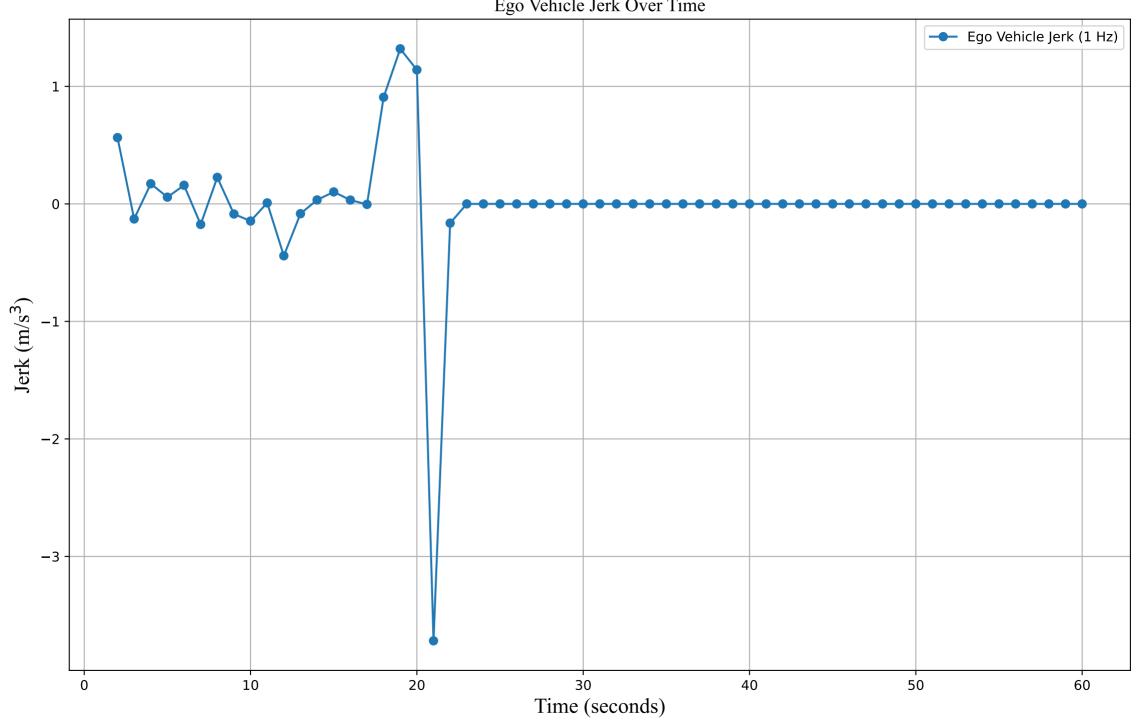


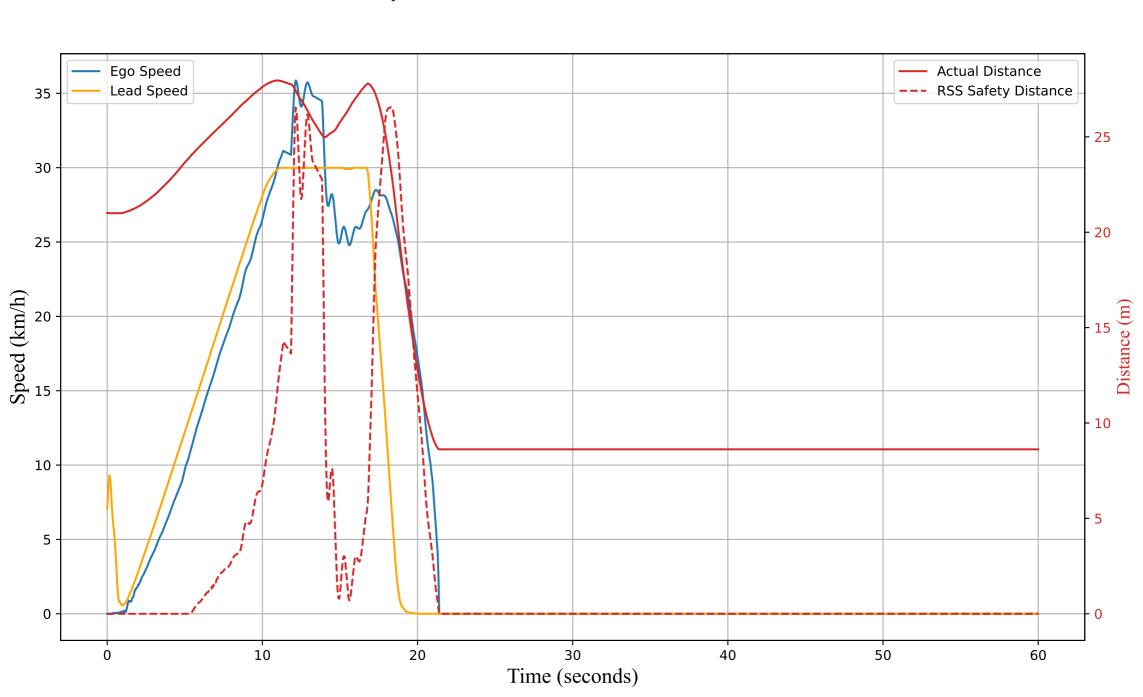
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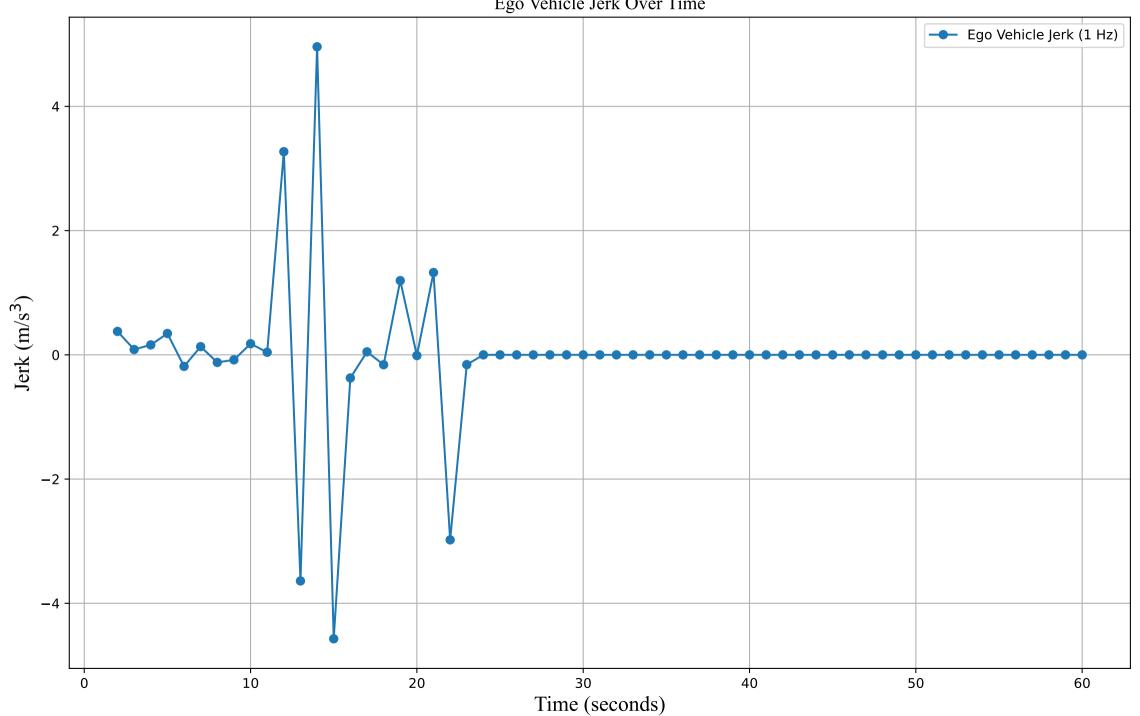


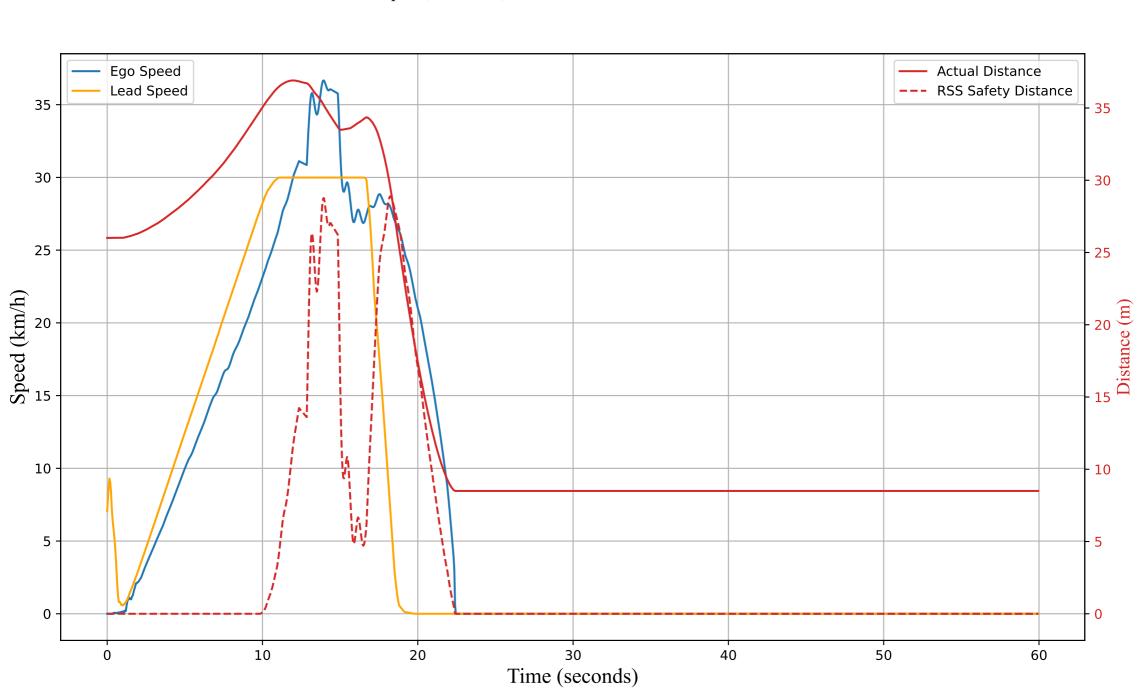
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



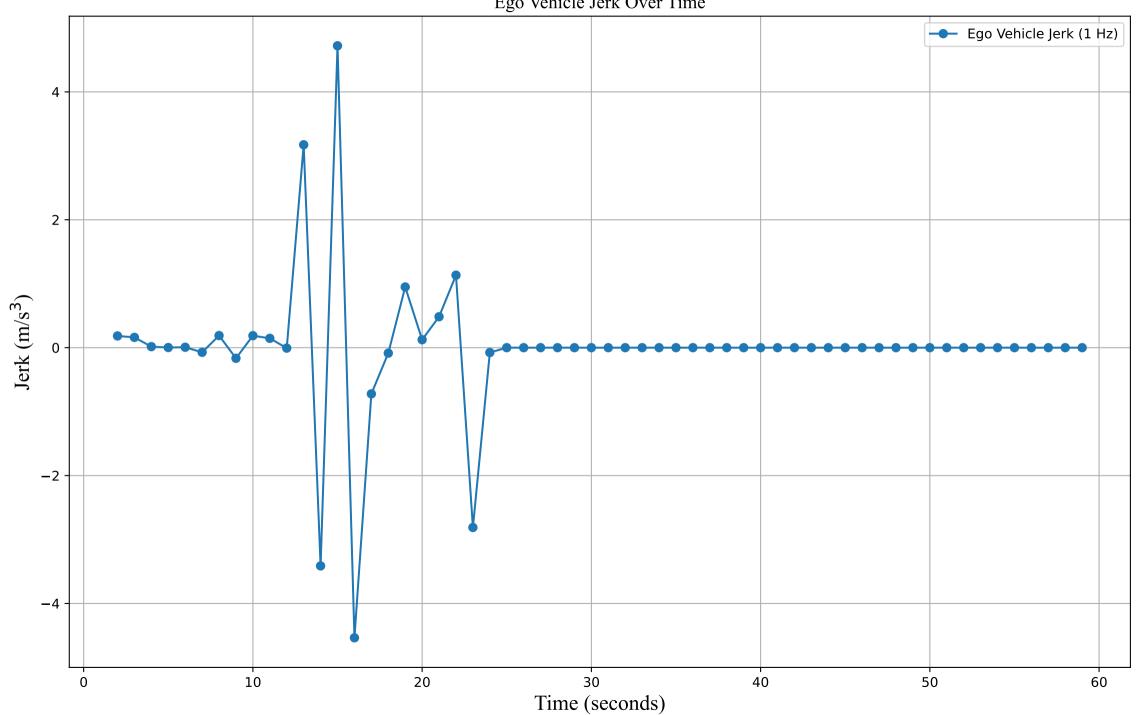


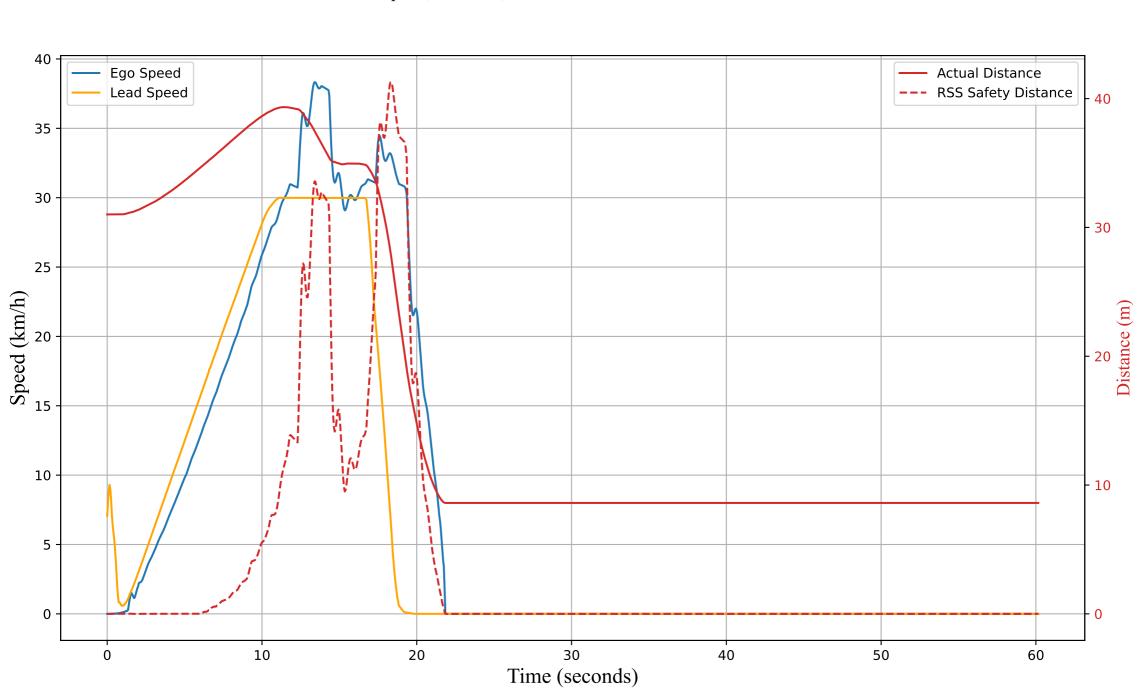
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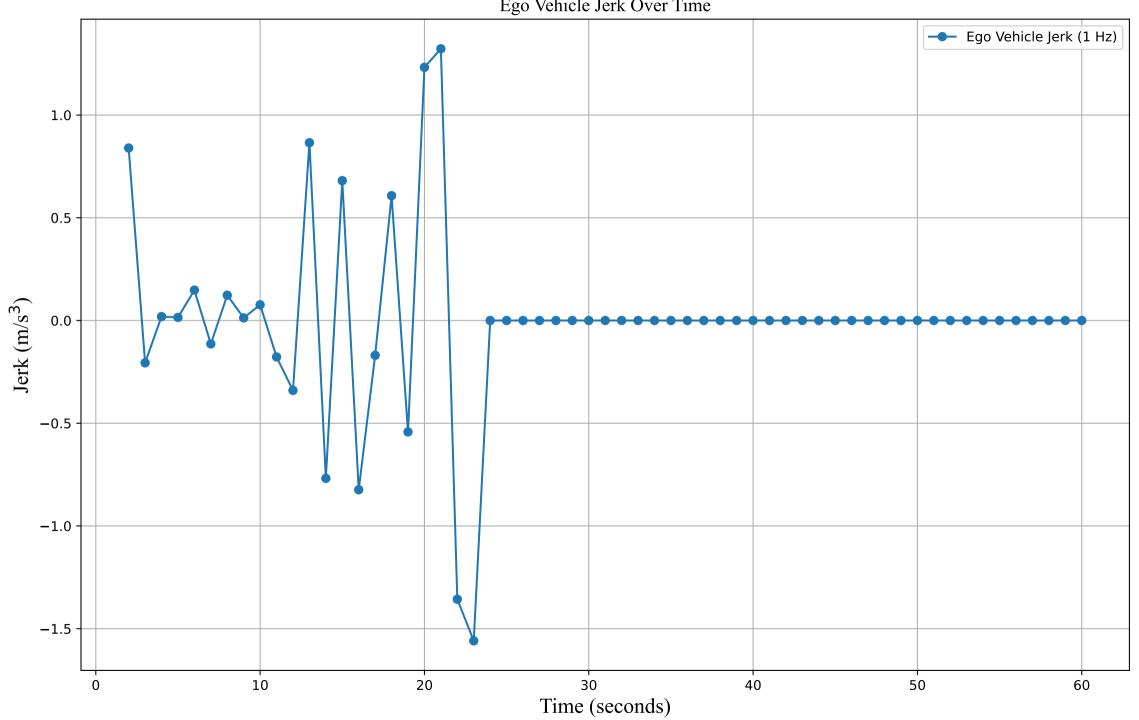


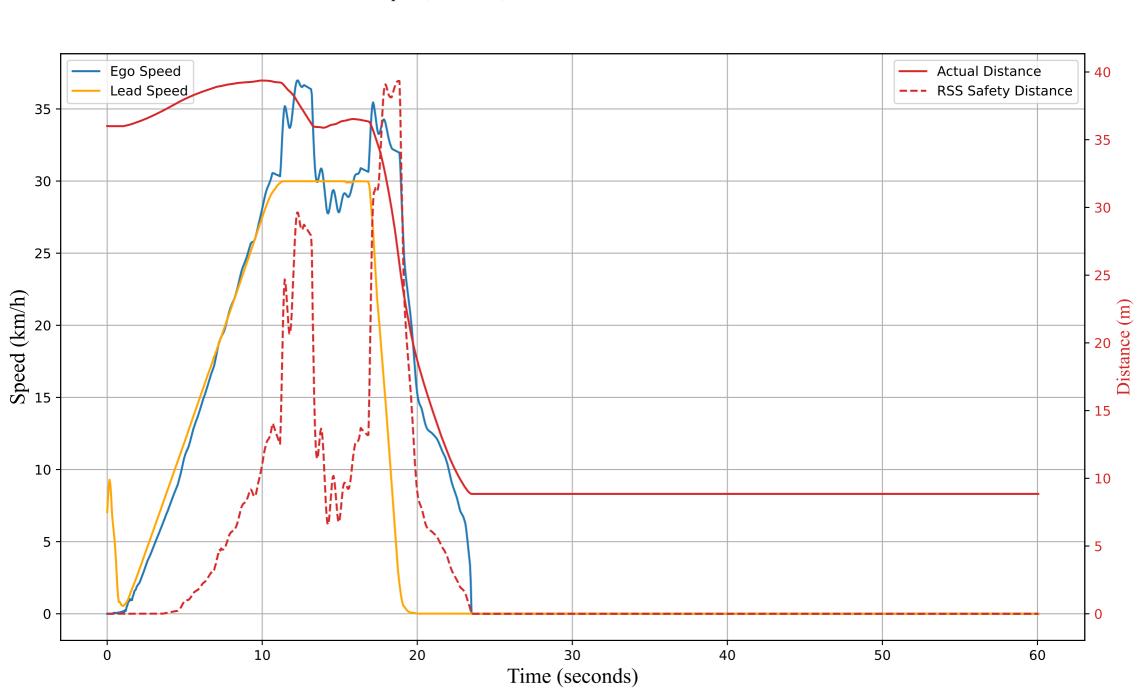
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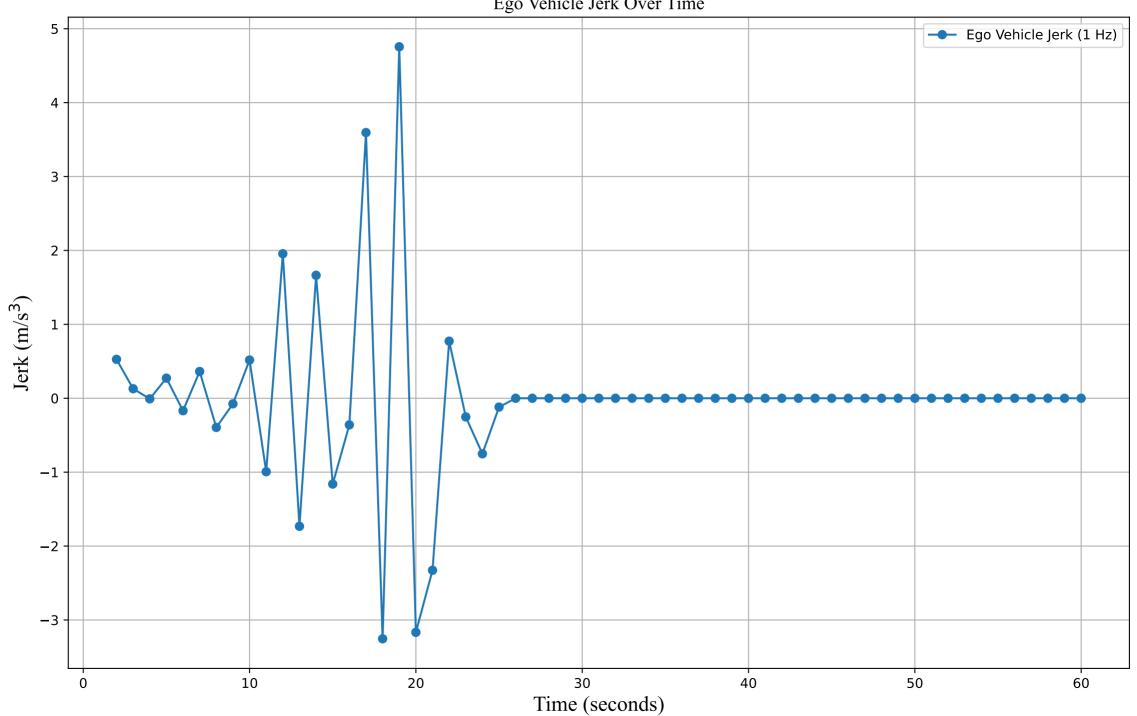


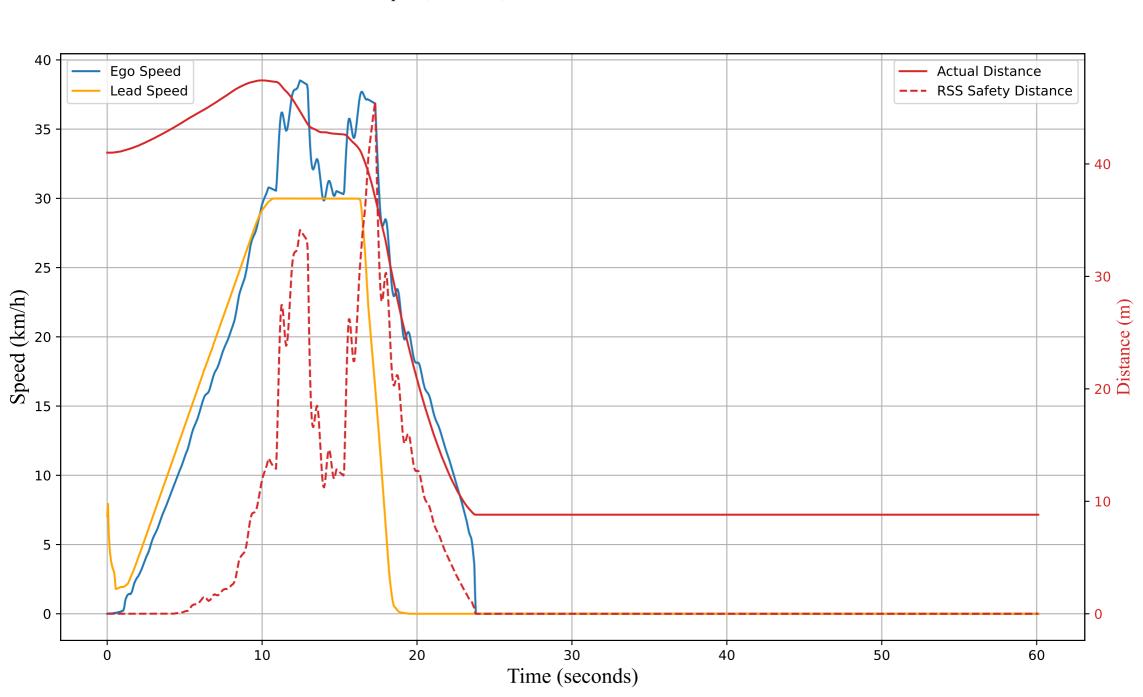
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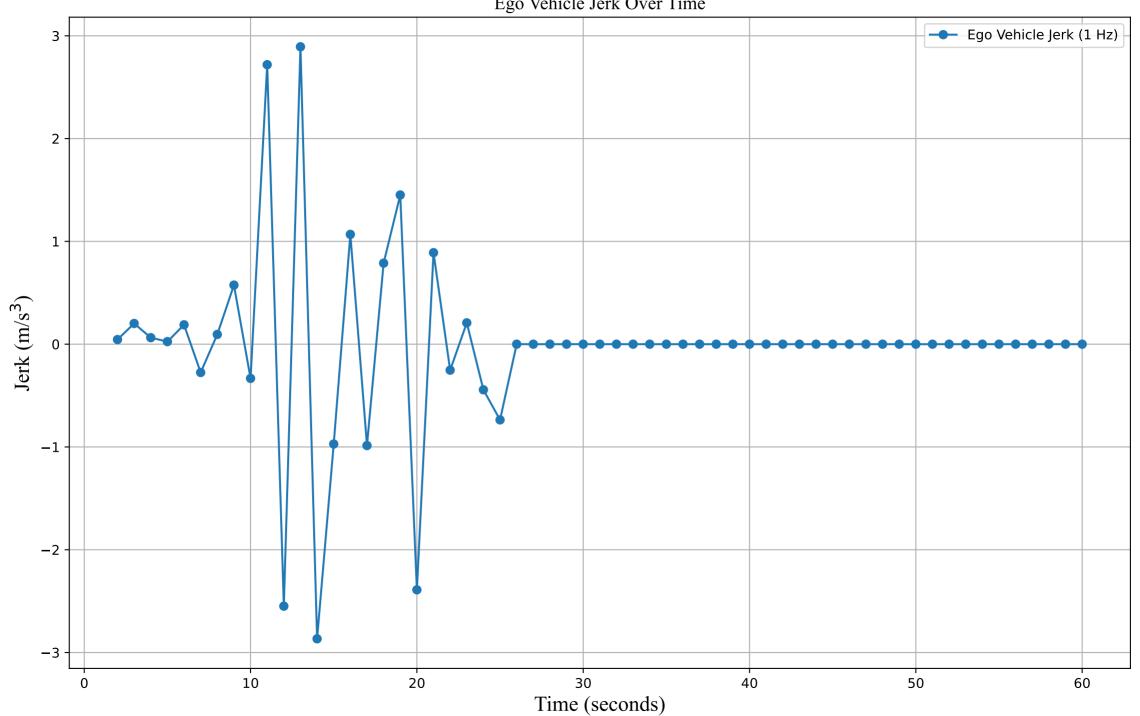


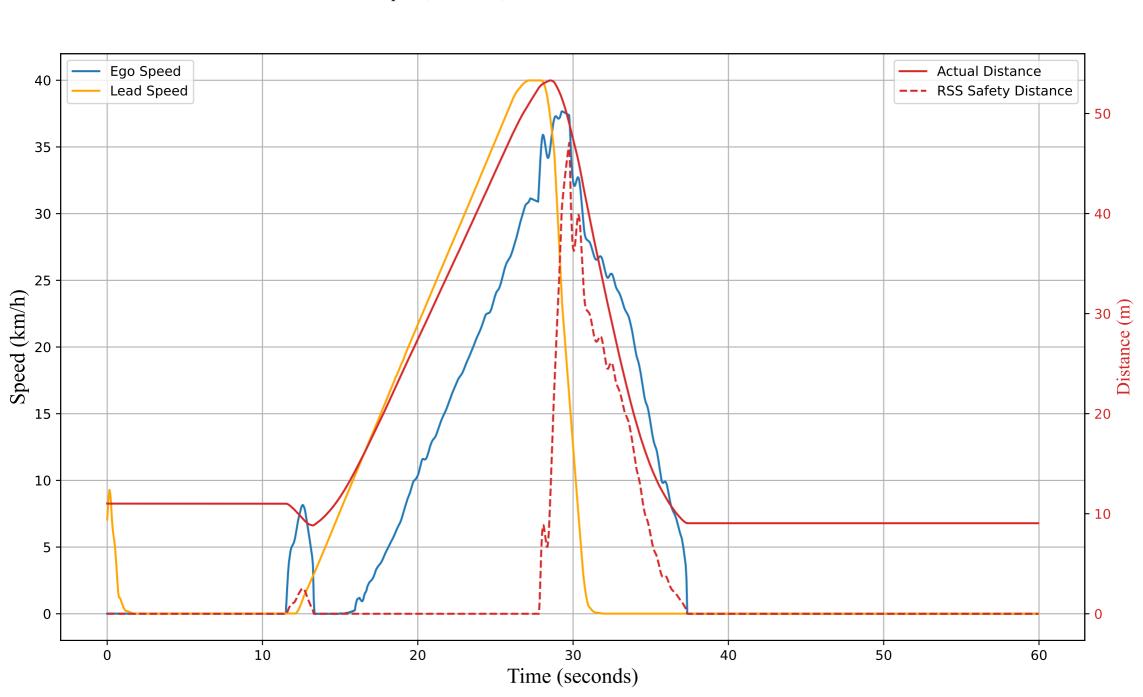
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



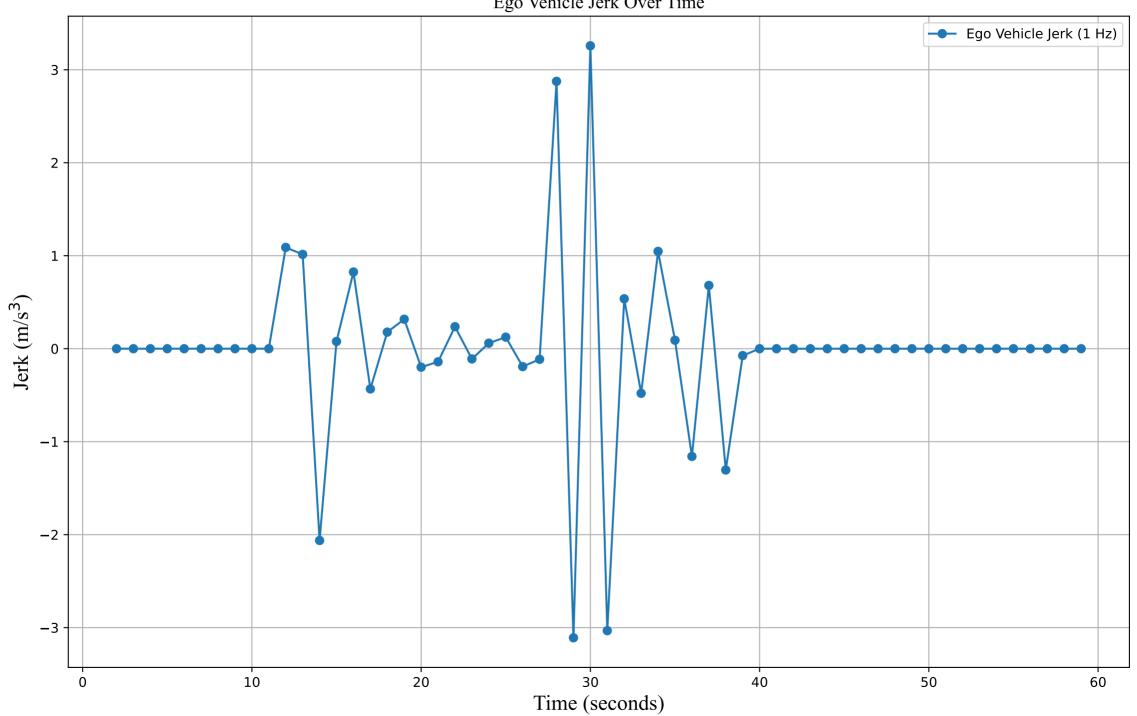


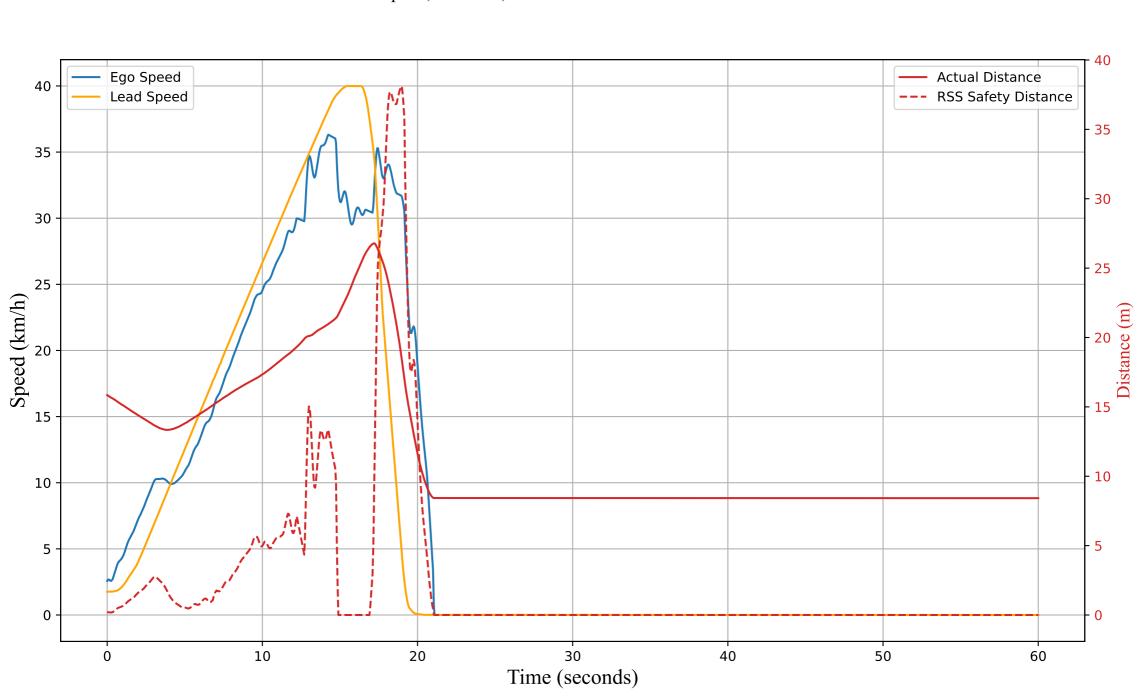
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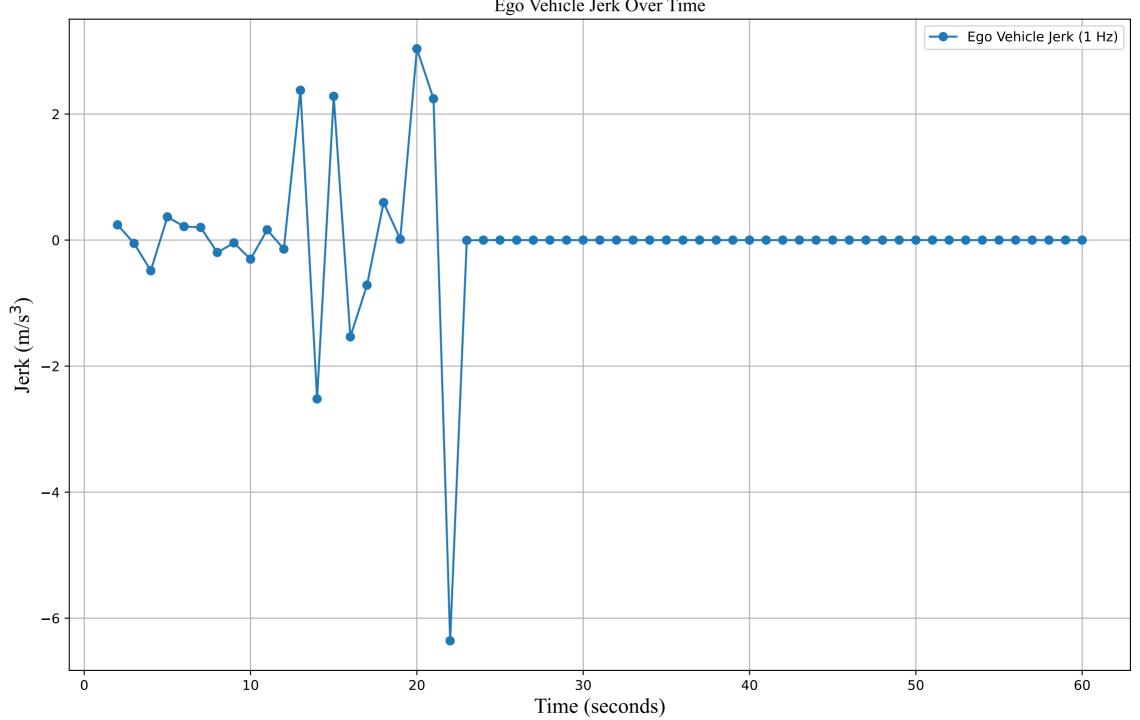


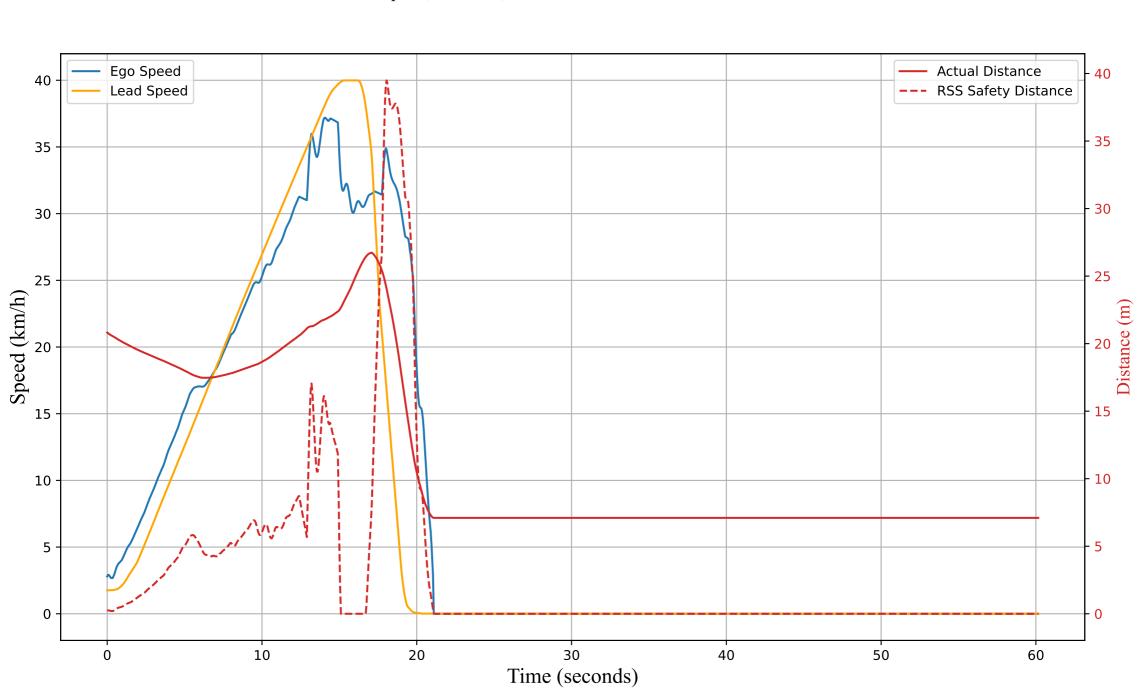
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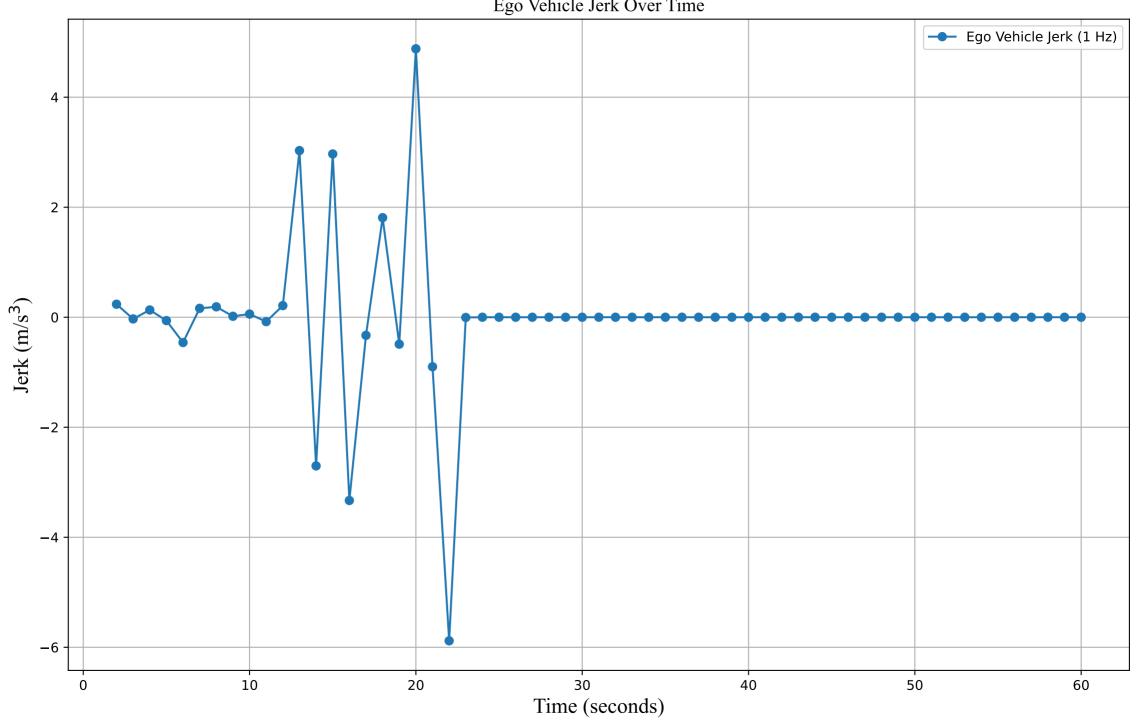


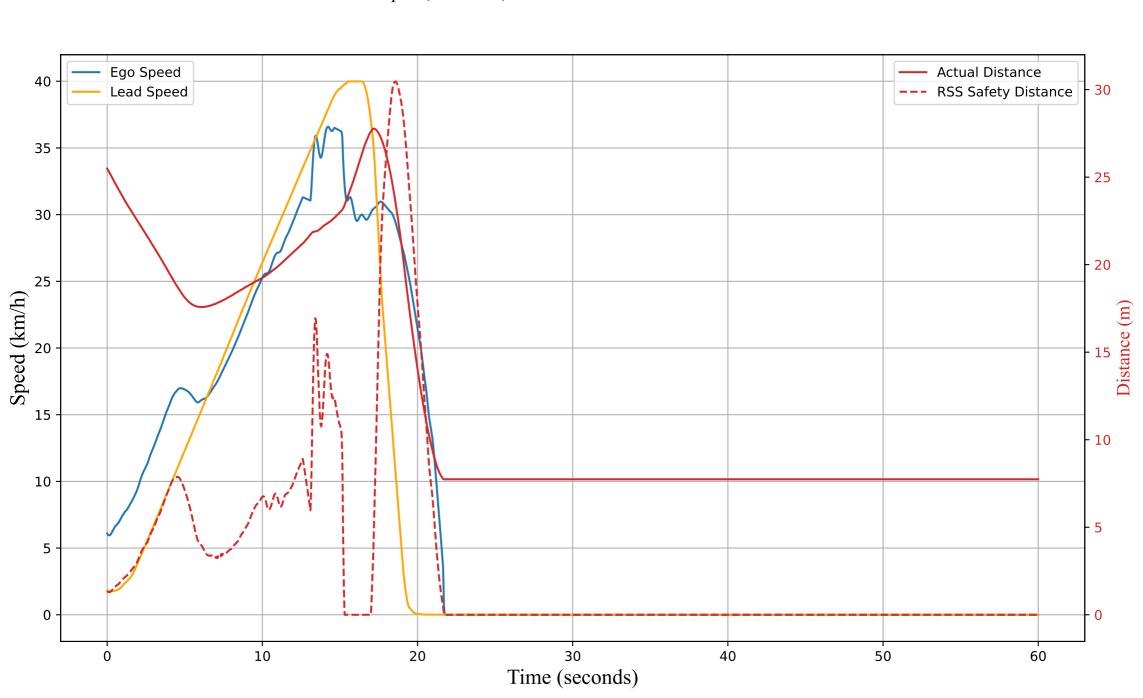
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



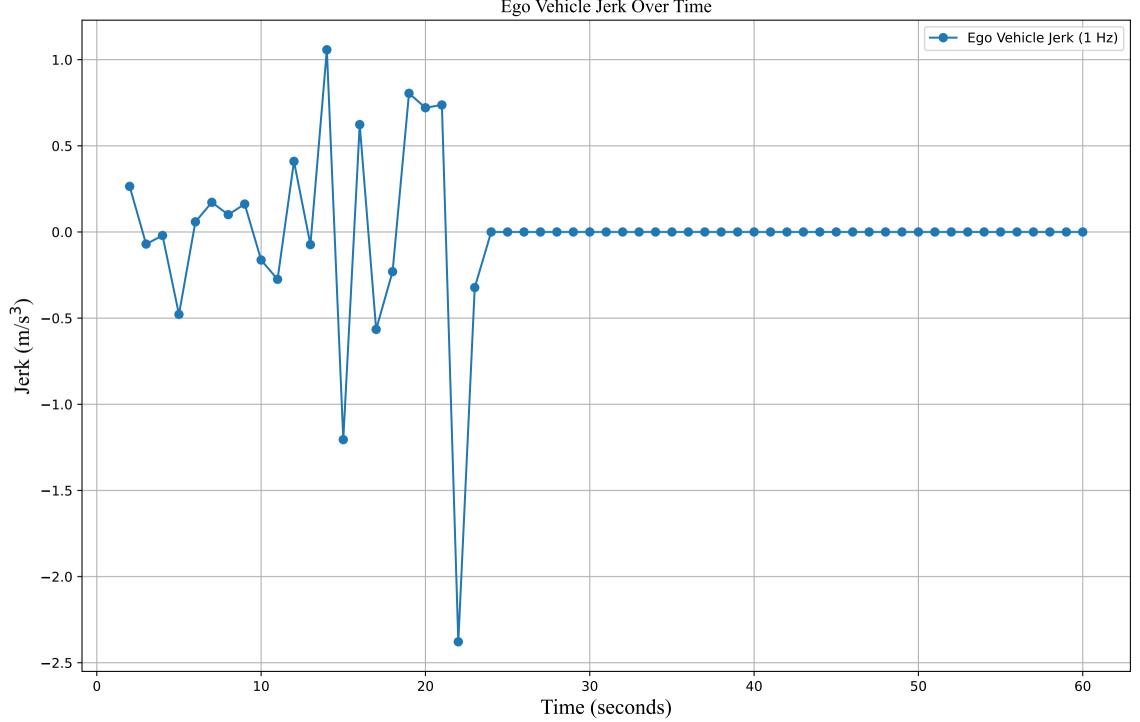


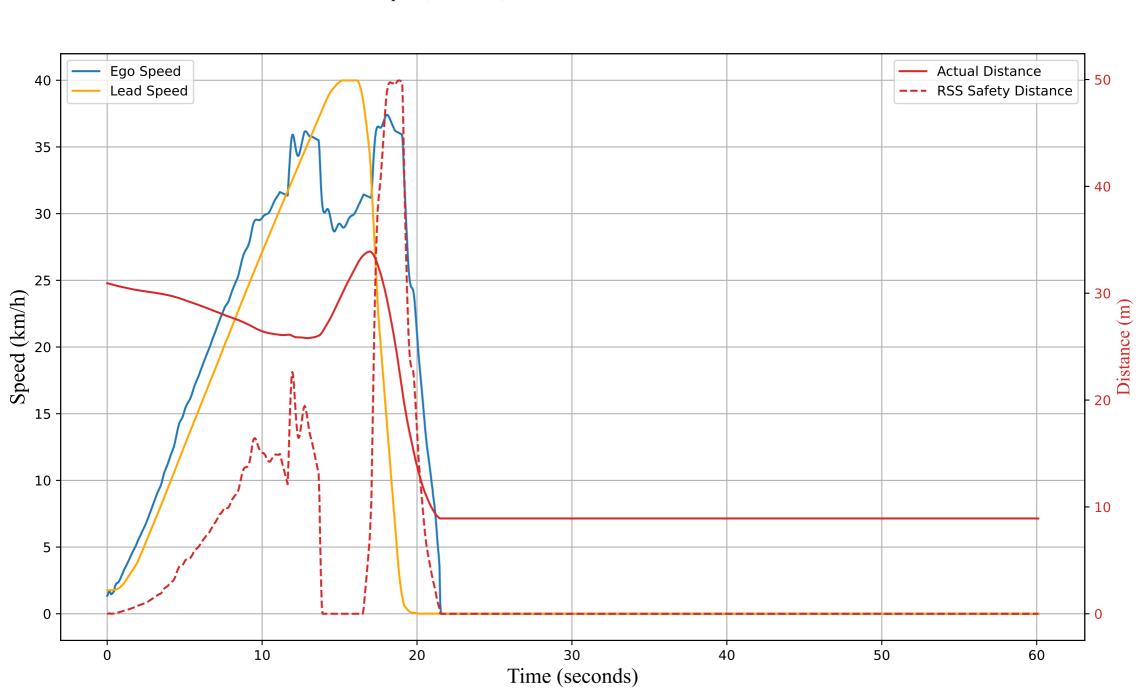
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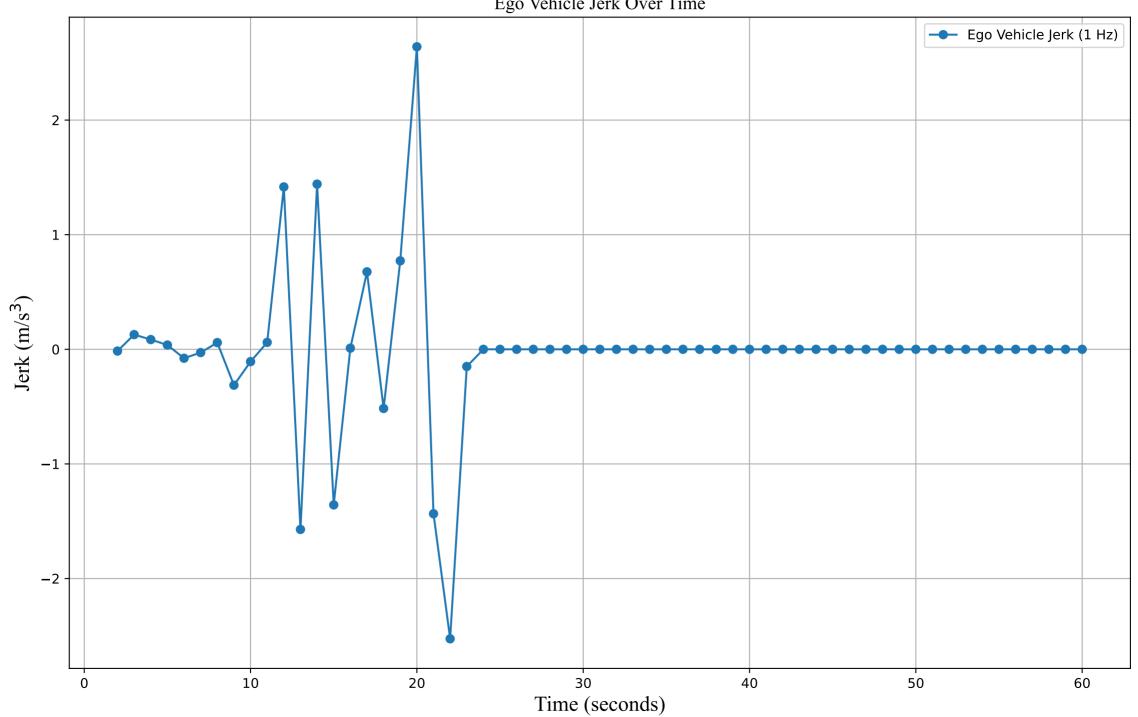


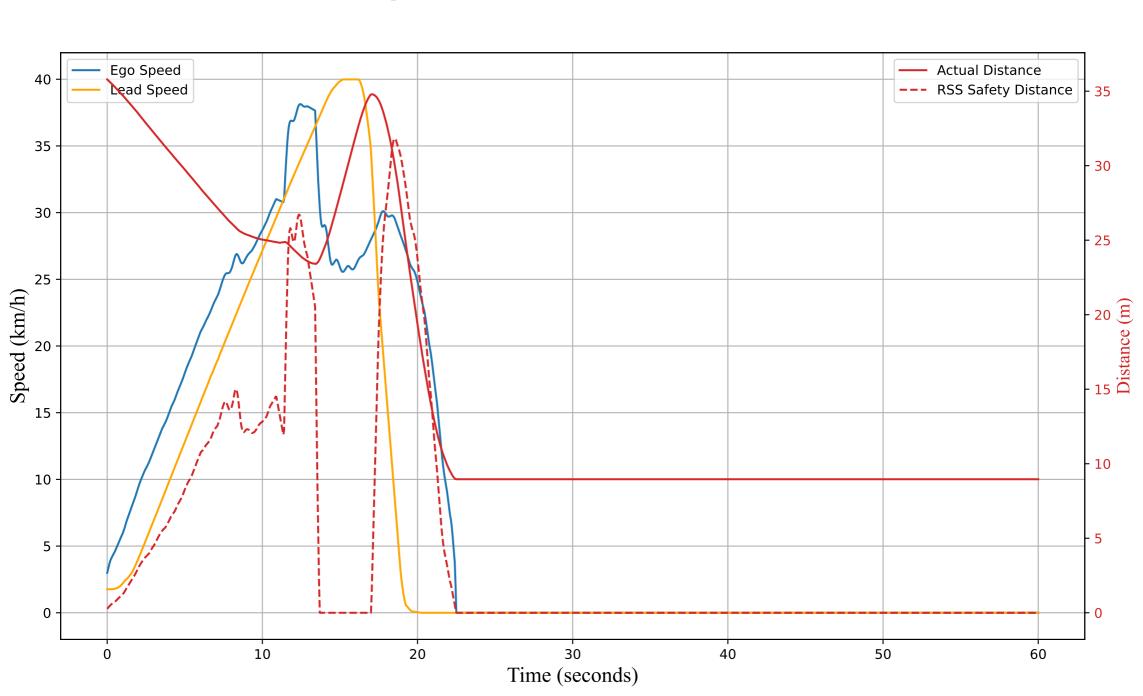
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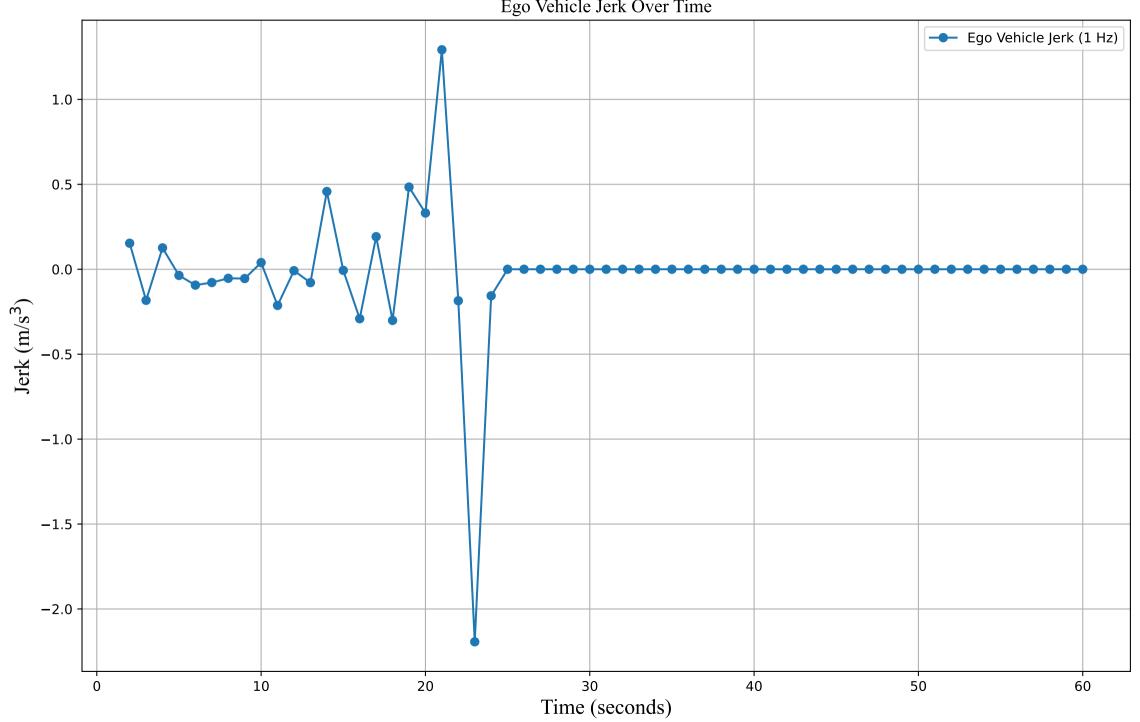


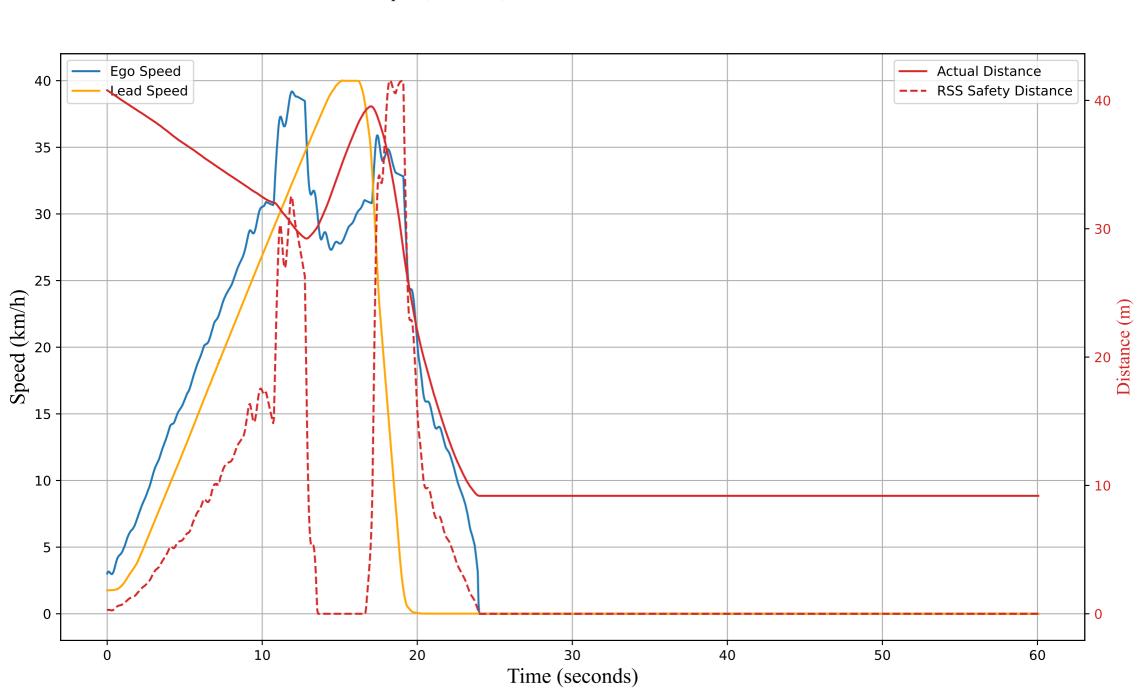
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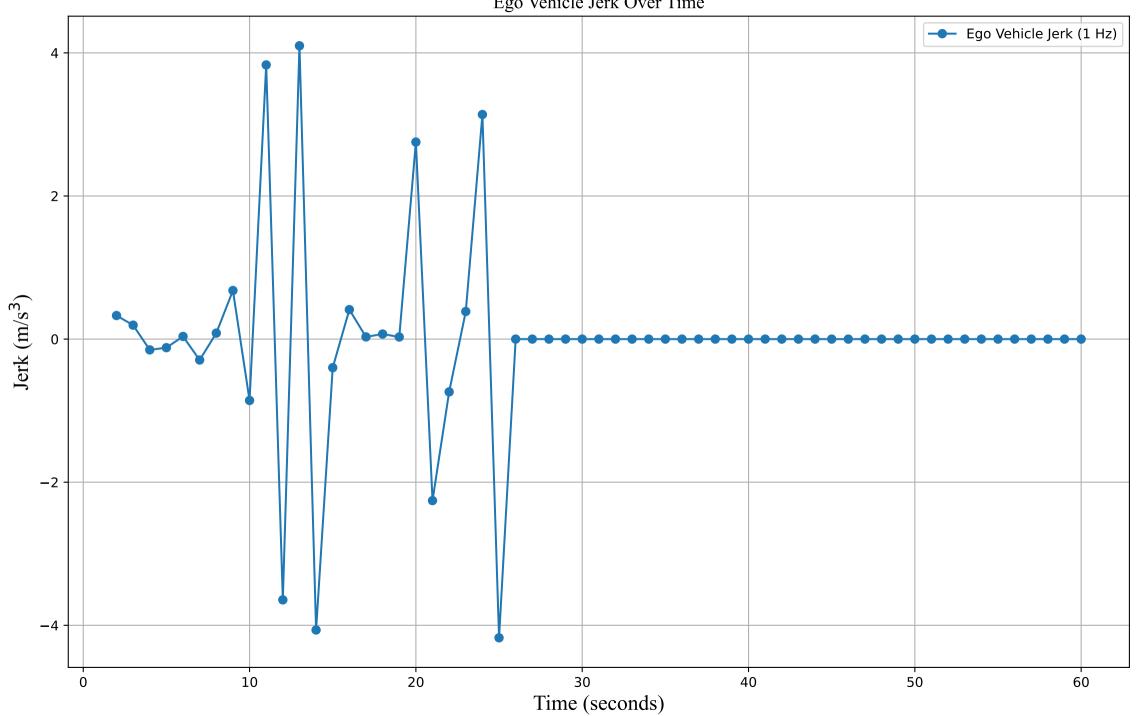


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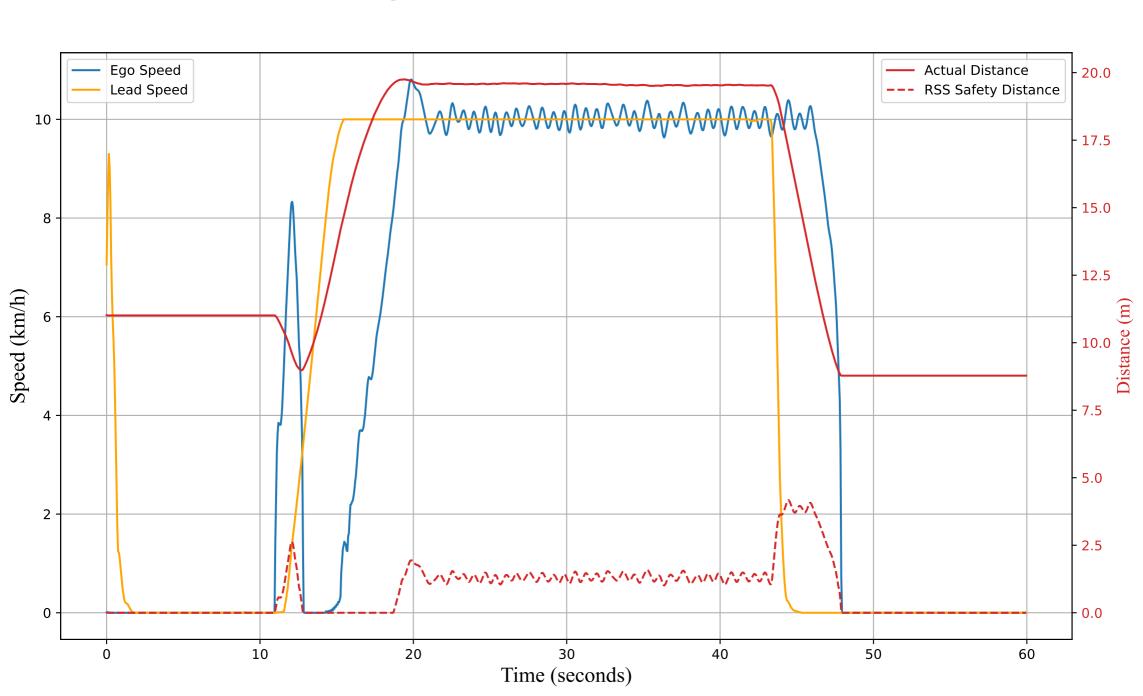




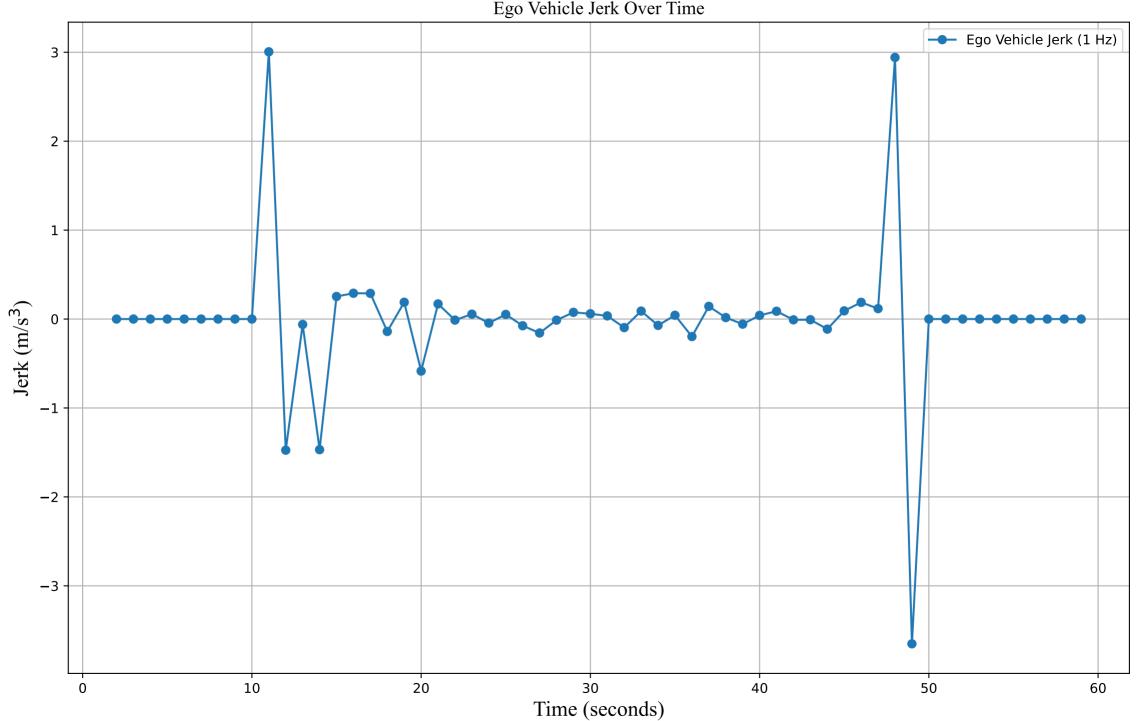
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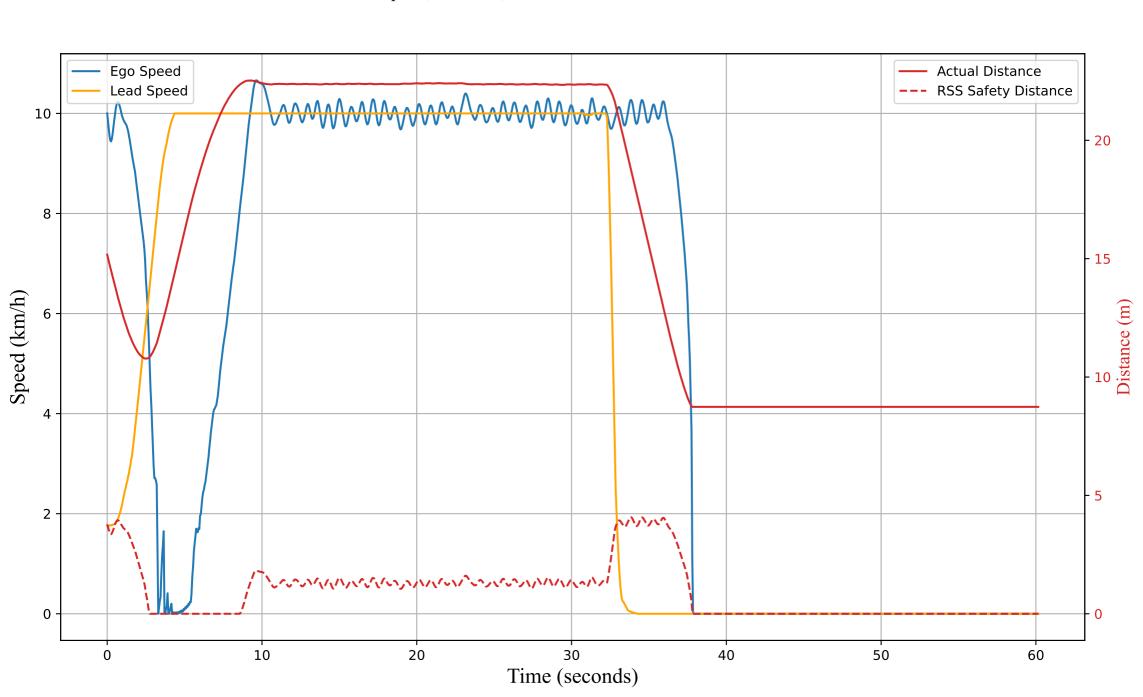


Case 2: $(\mathbf{v}_r = \mathbf{v}_f)$

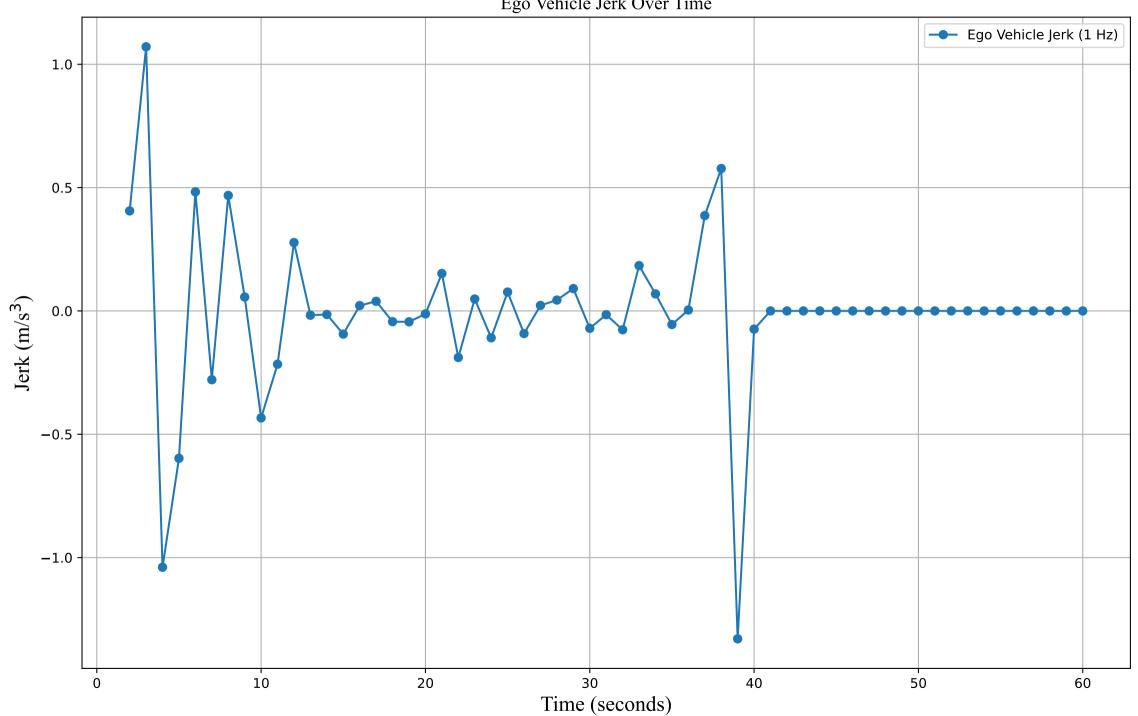


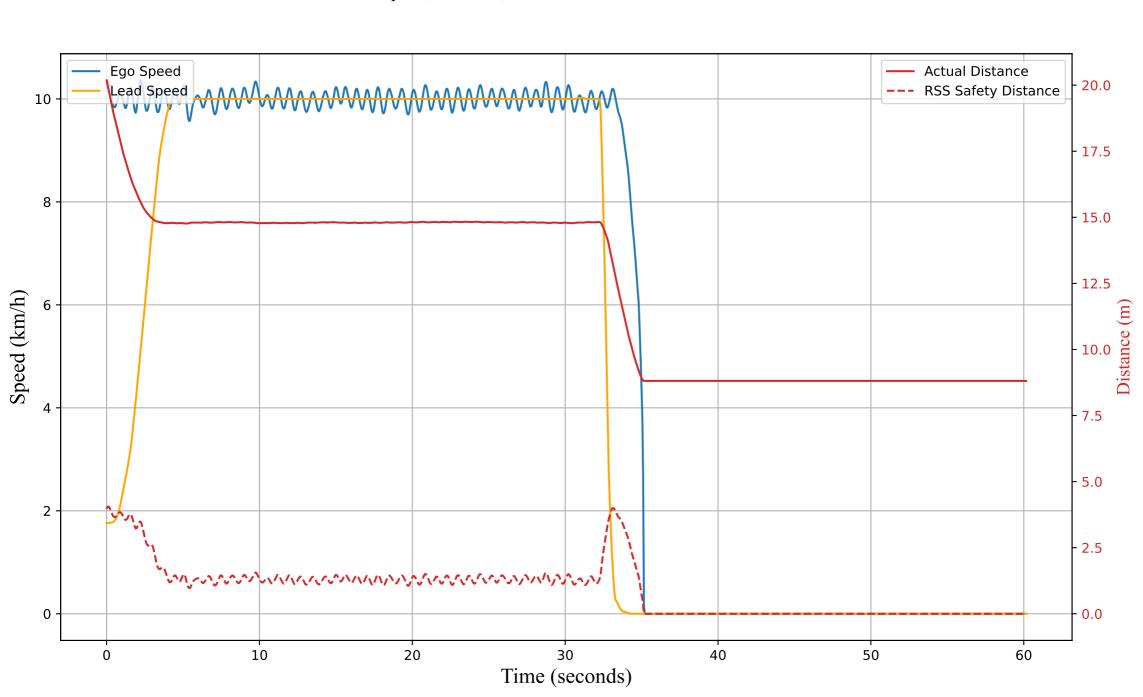
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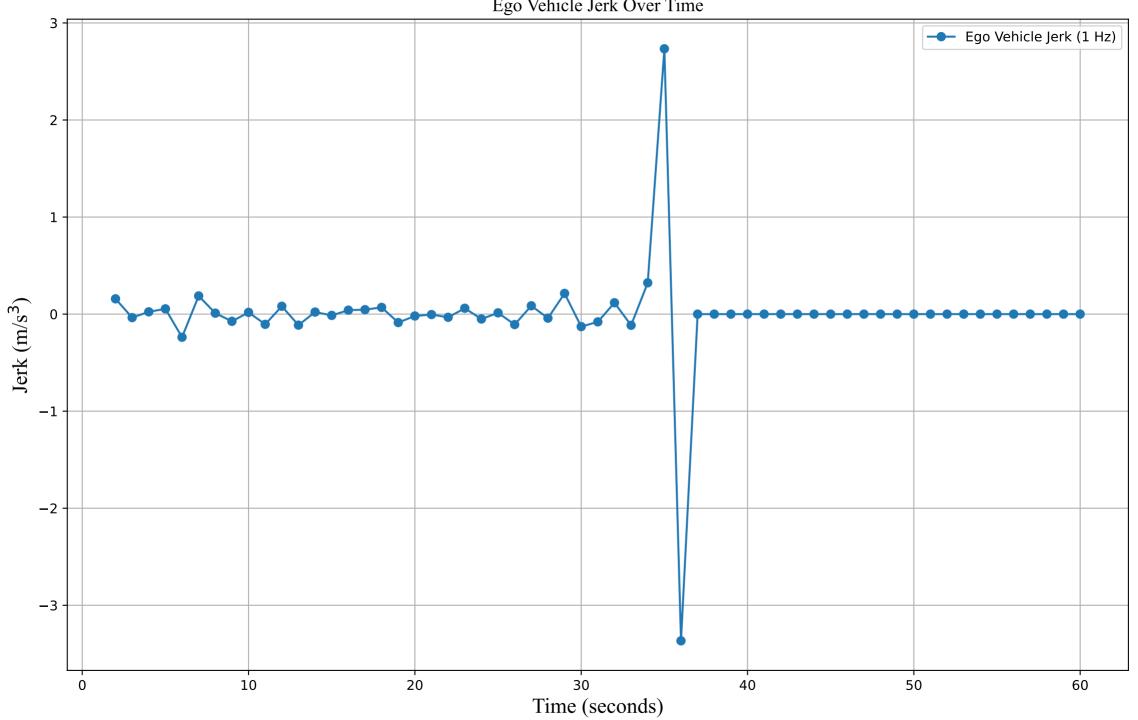


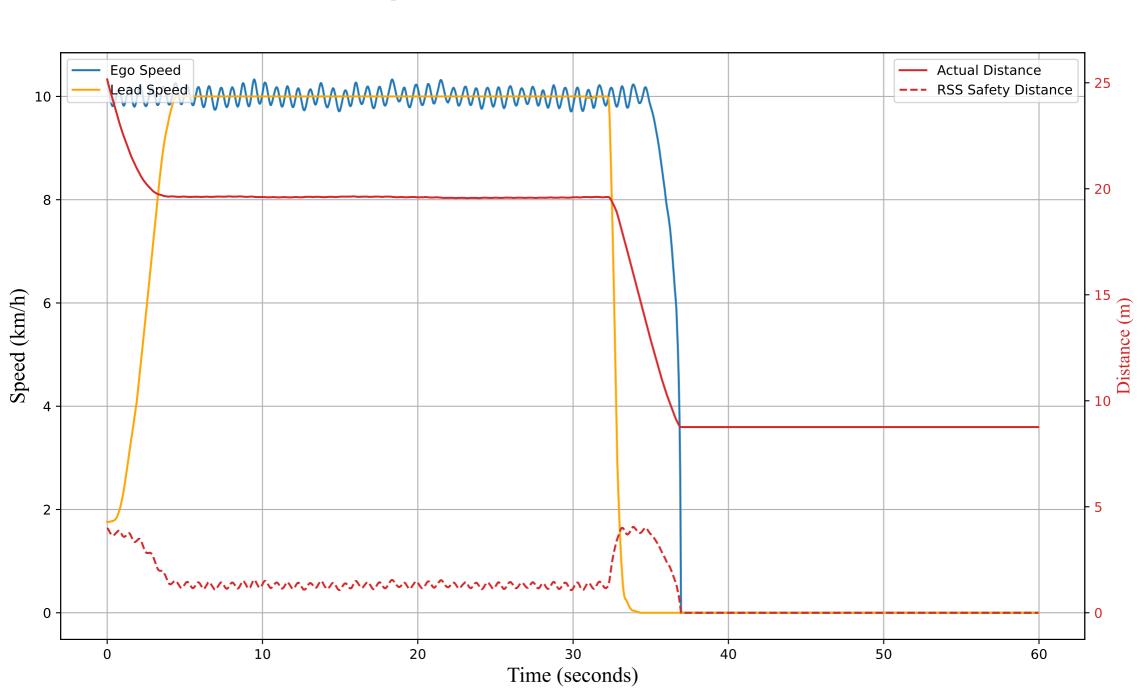
Ego Vehicle Speed=10 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



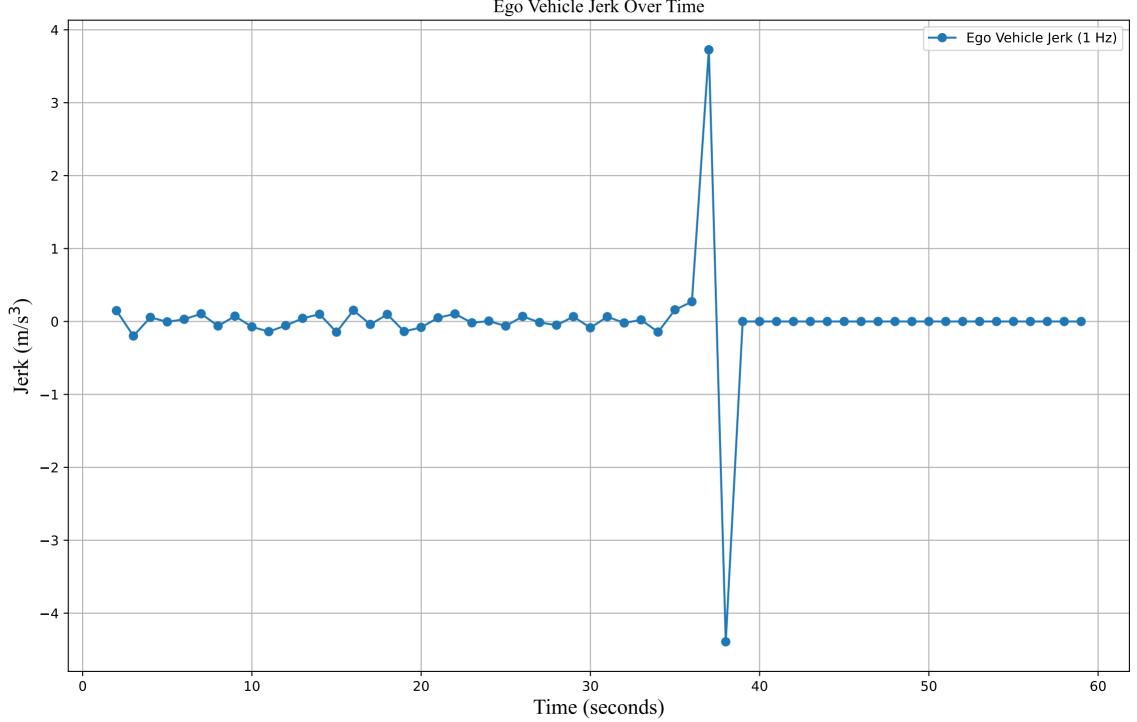


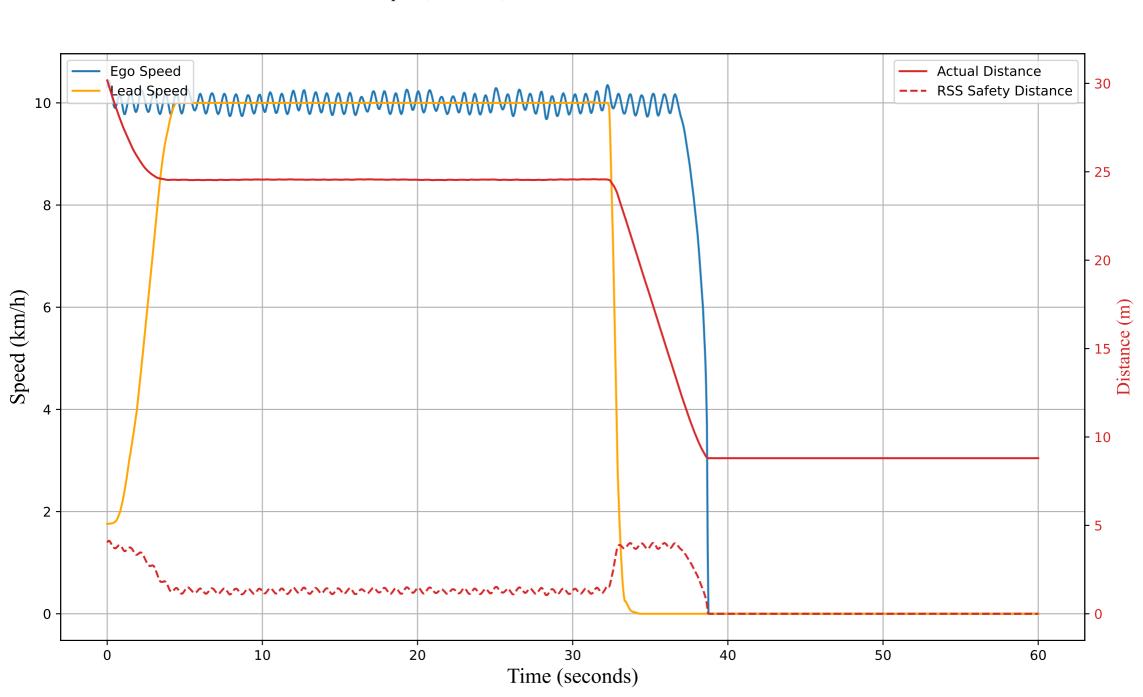
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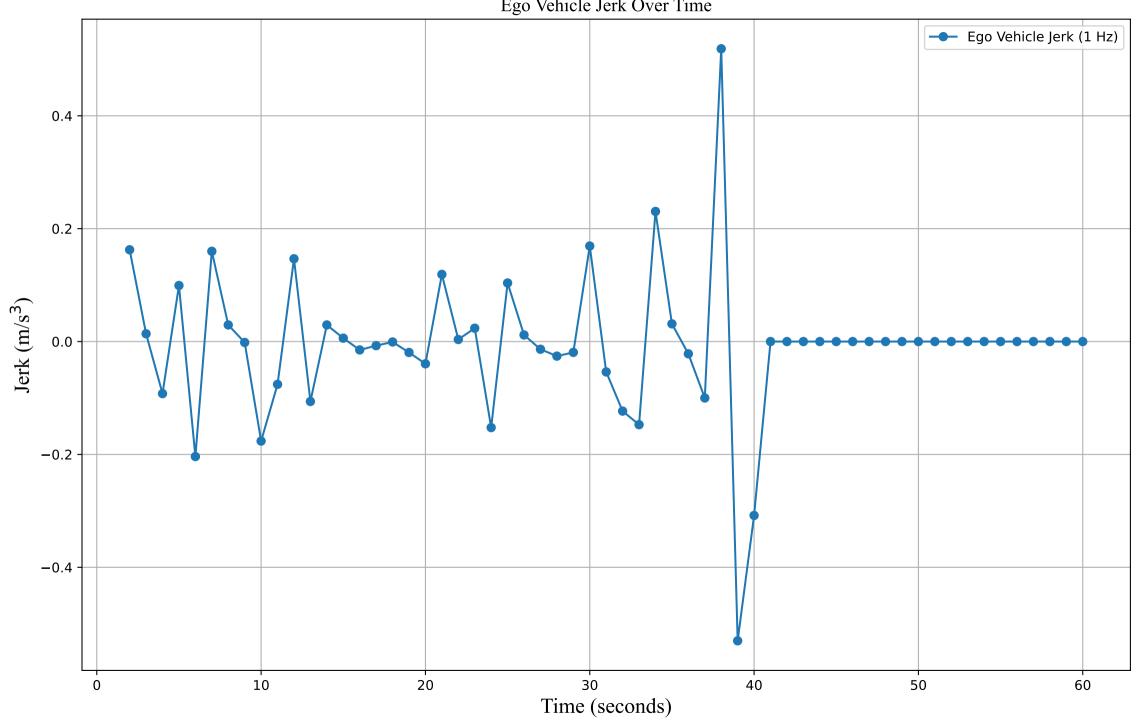


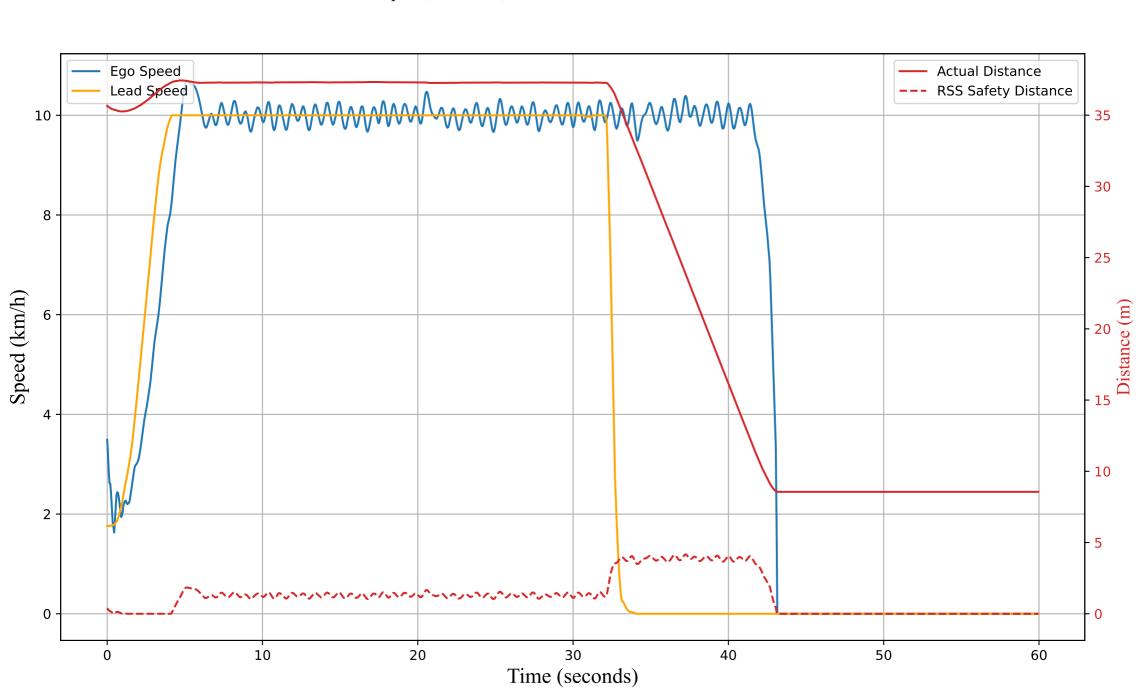
Ego Vehicle Speed=10 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=25 m Ego Vehicle Jerk Over Time



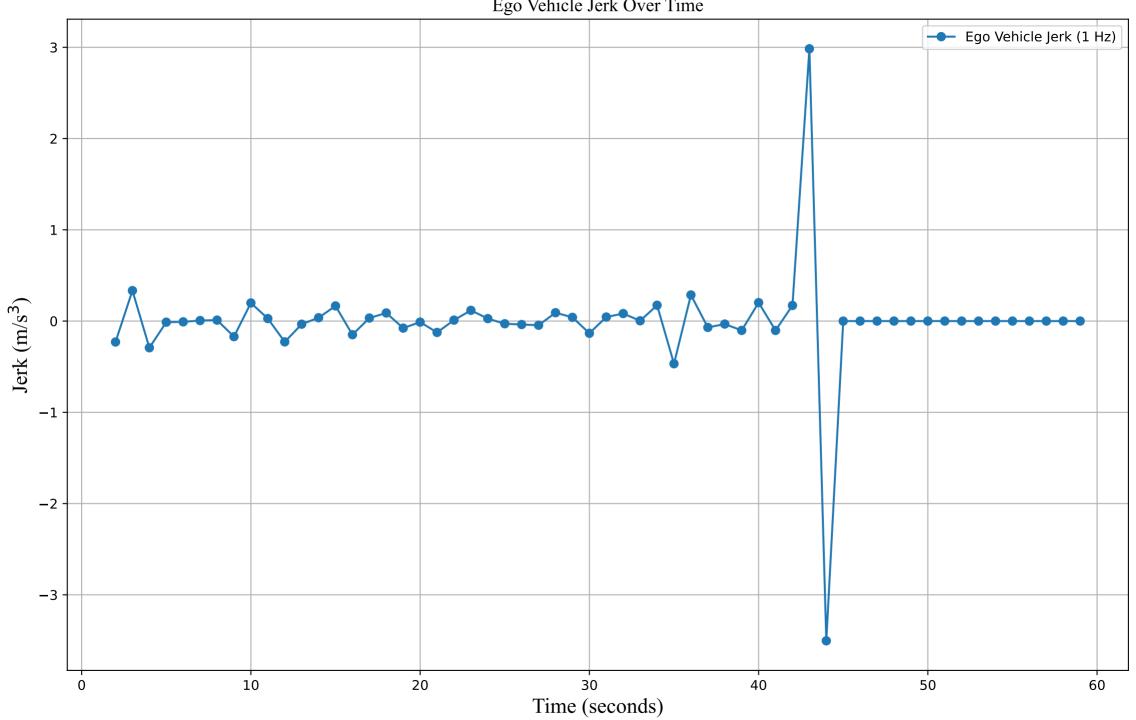


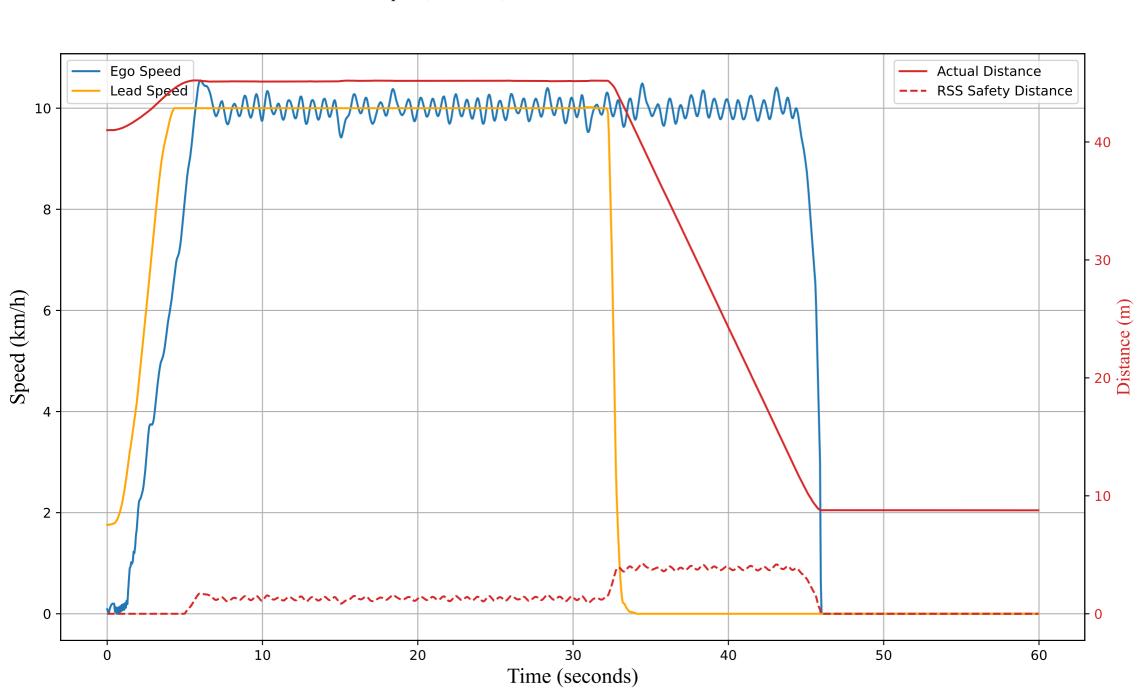
Ego Vehicle Speed=10 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=30 m Ego Vehicle Jerk Over Time



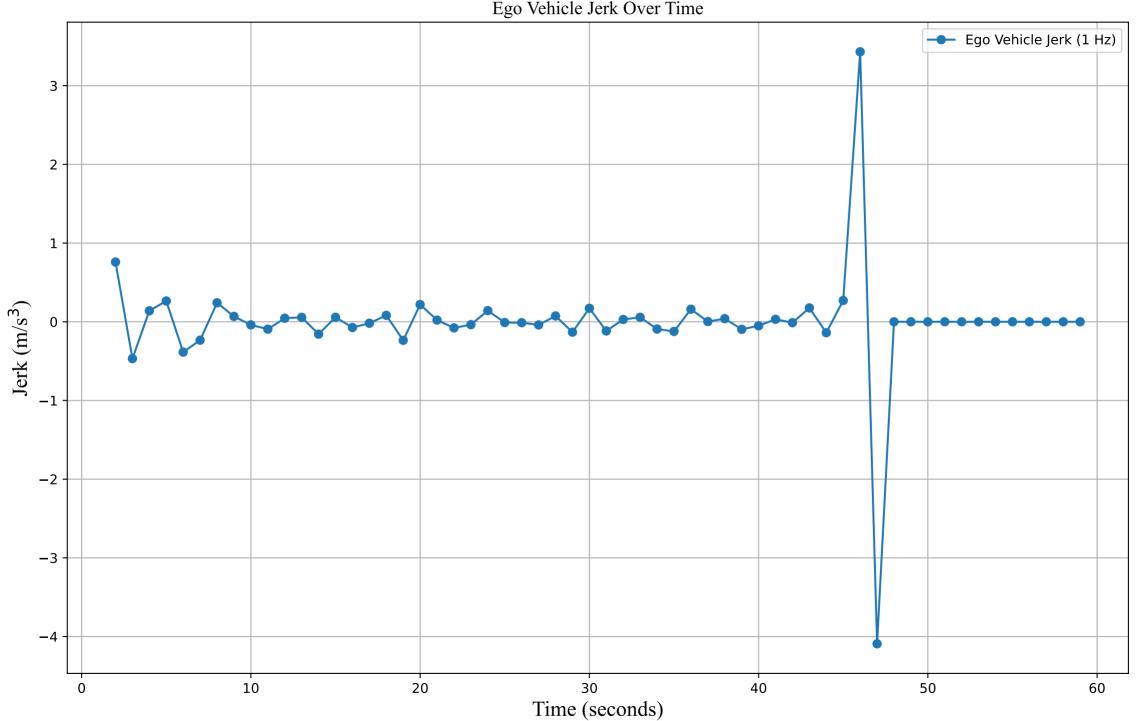


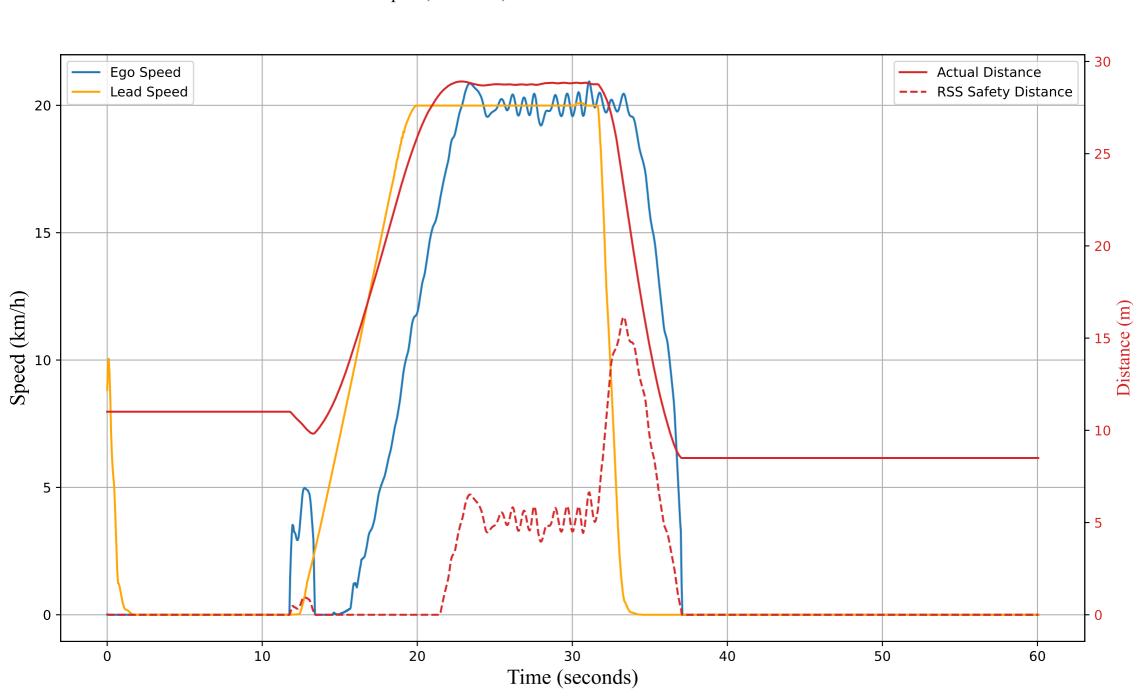
Ego Vehicle Speed=10 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



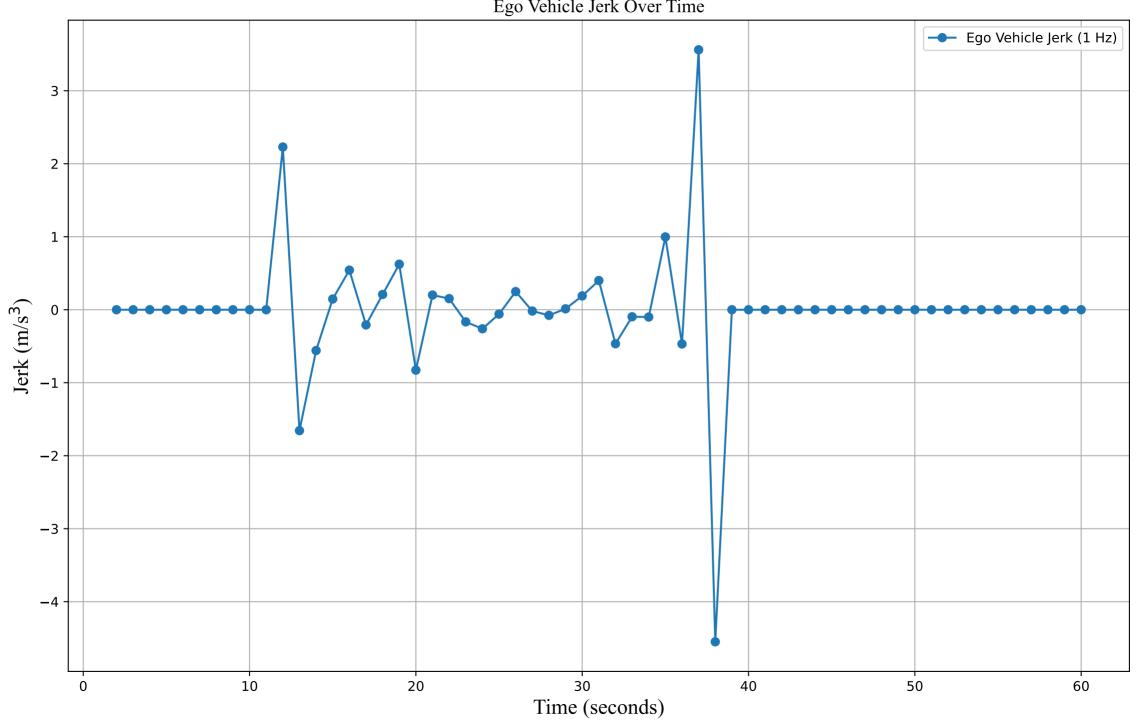


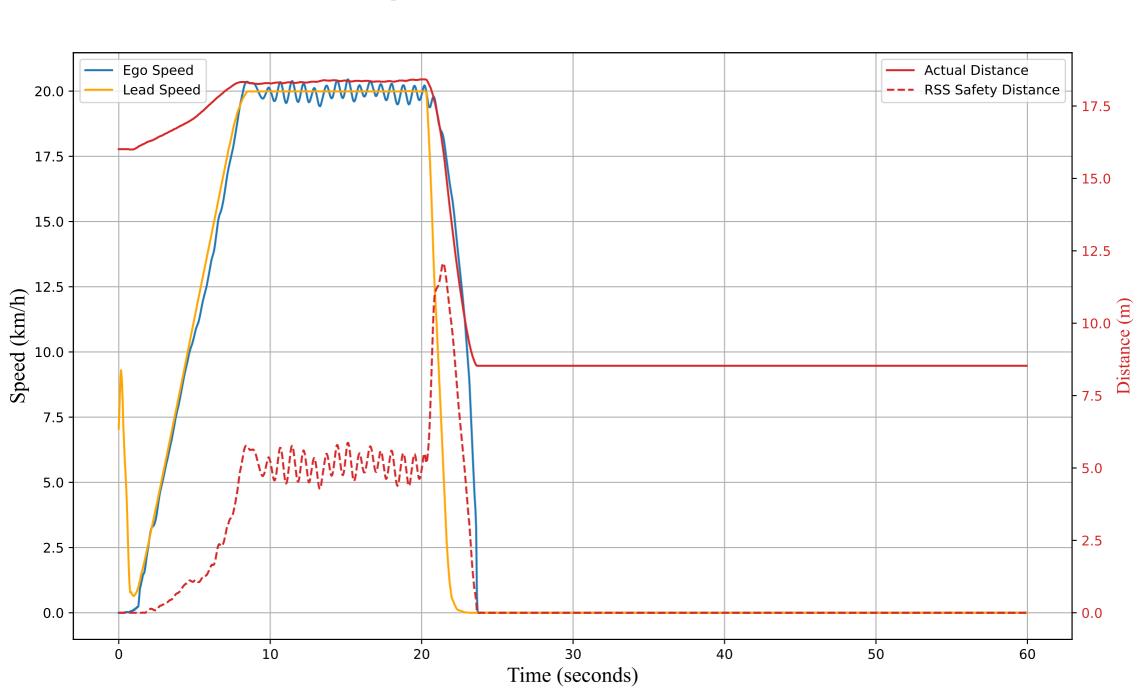
Ego Vehicle Speed=10 km/h, Lead Vehicle Speed=10 km/h, Initial Distance=40 m Ego Vehicle Jerk Over Time



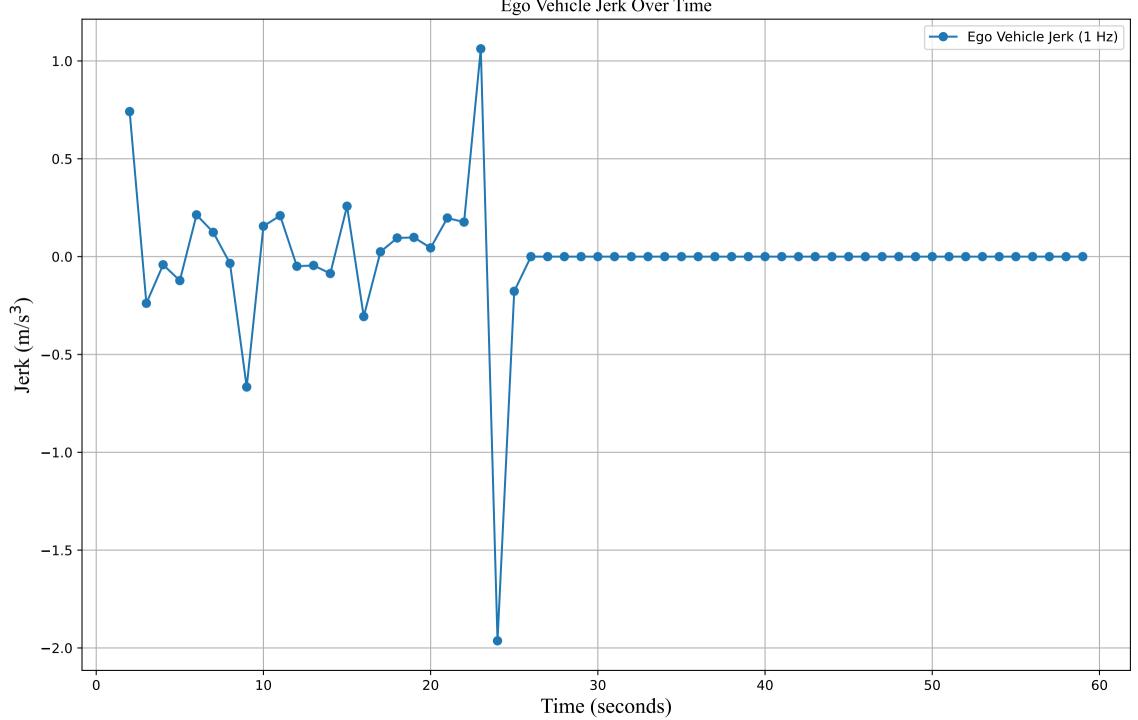


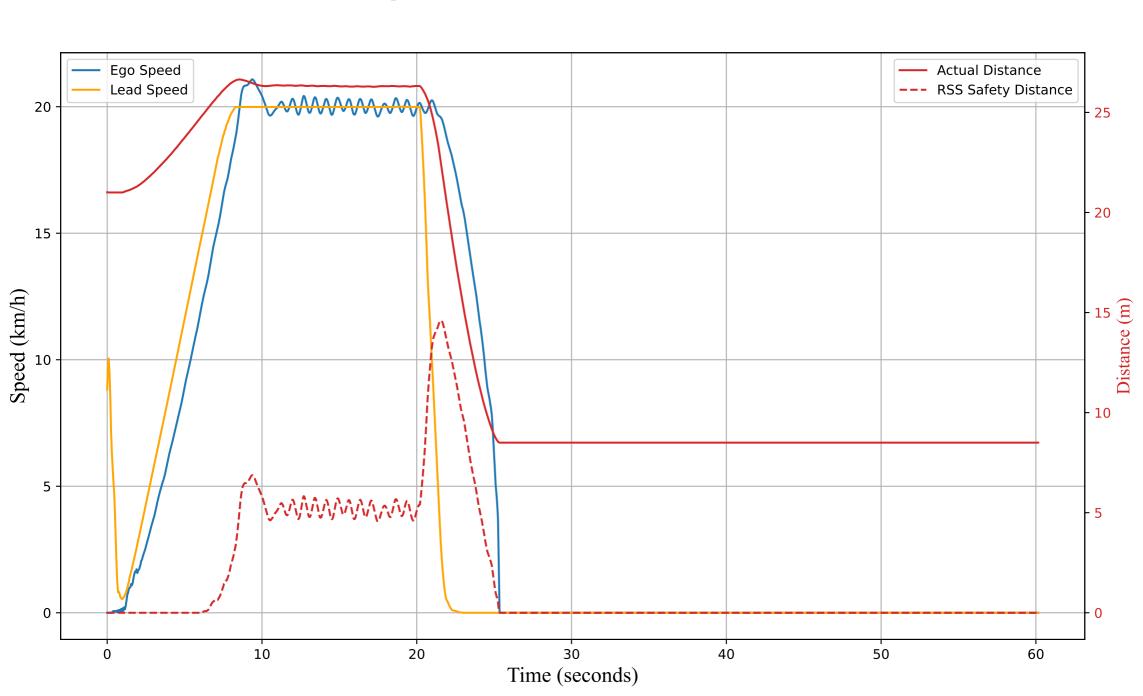
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=10 m Ego Vehicle Jerk Over Time



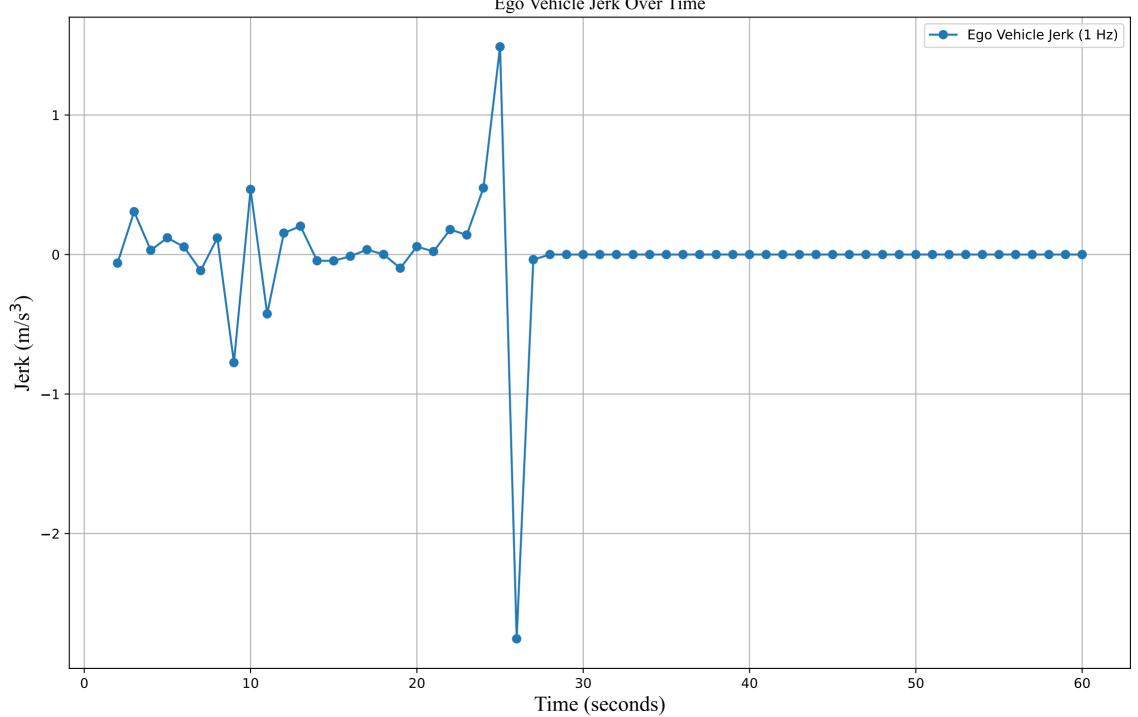


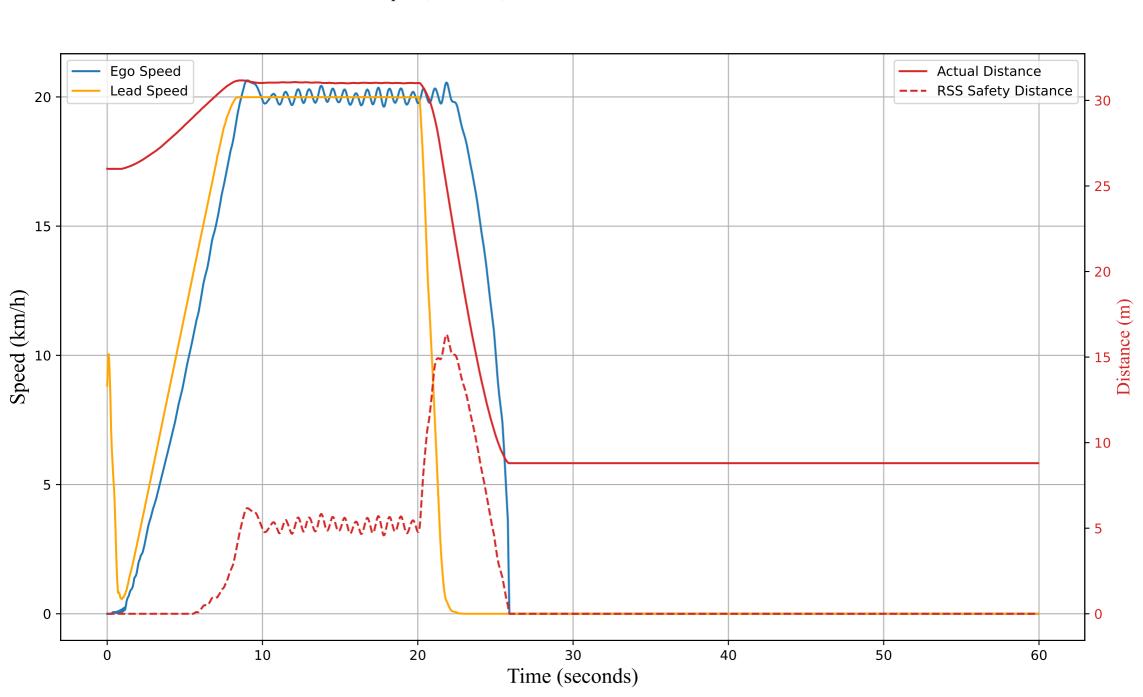
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



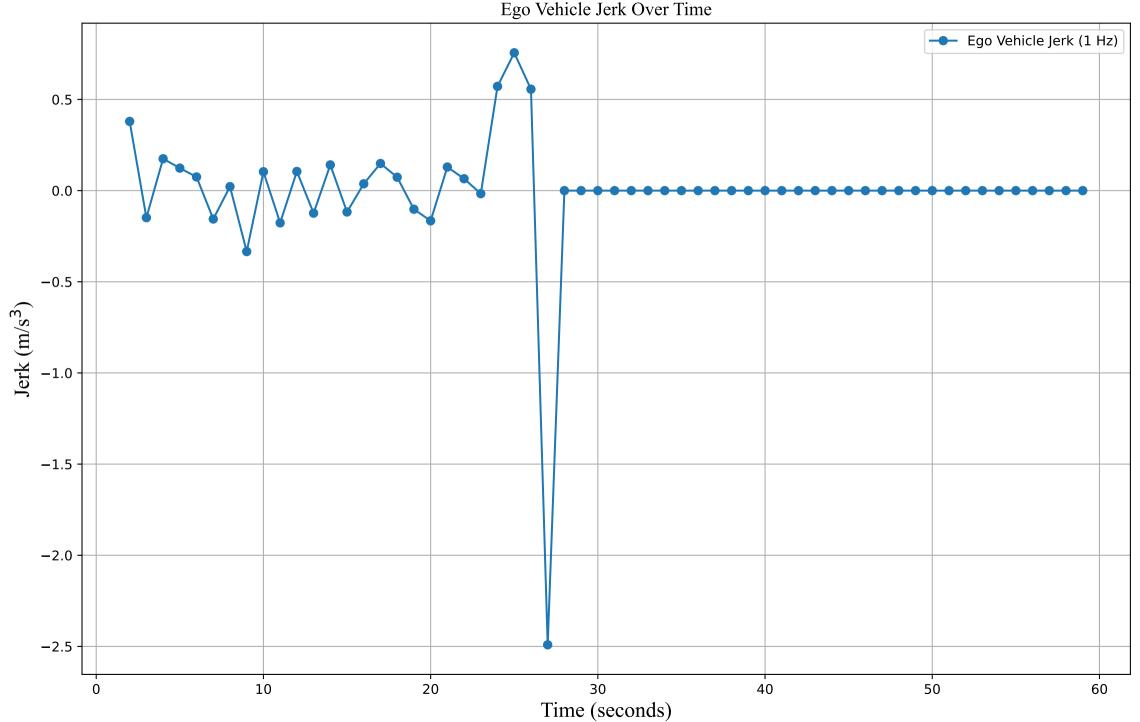


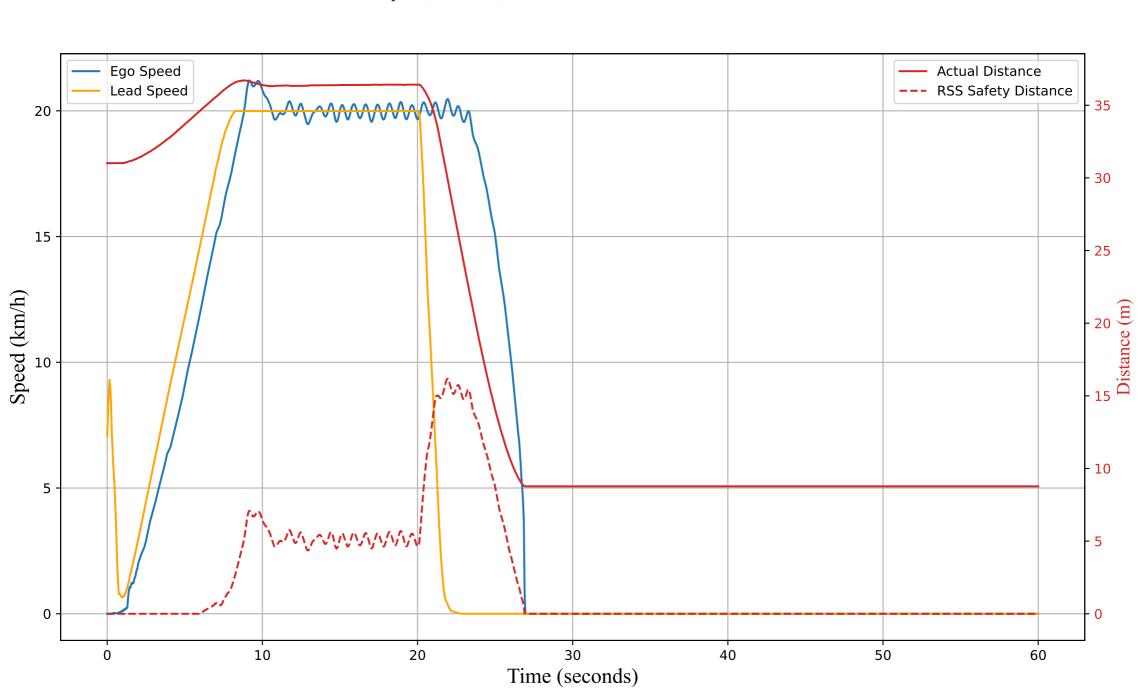
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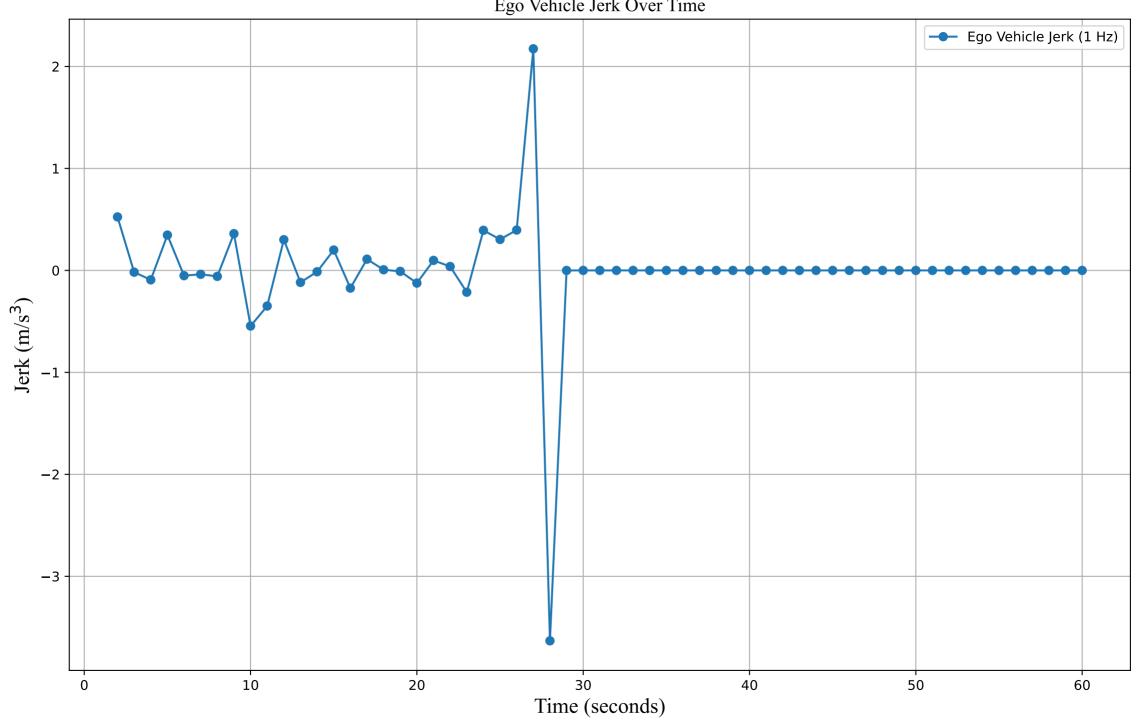


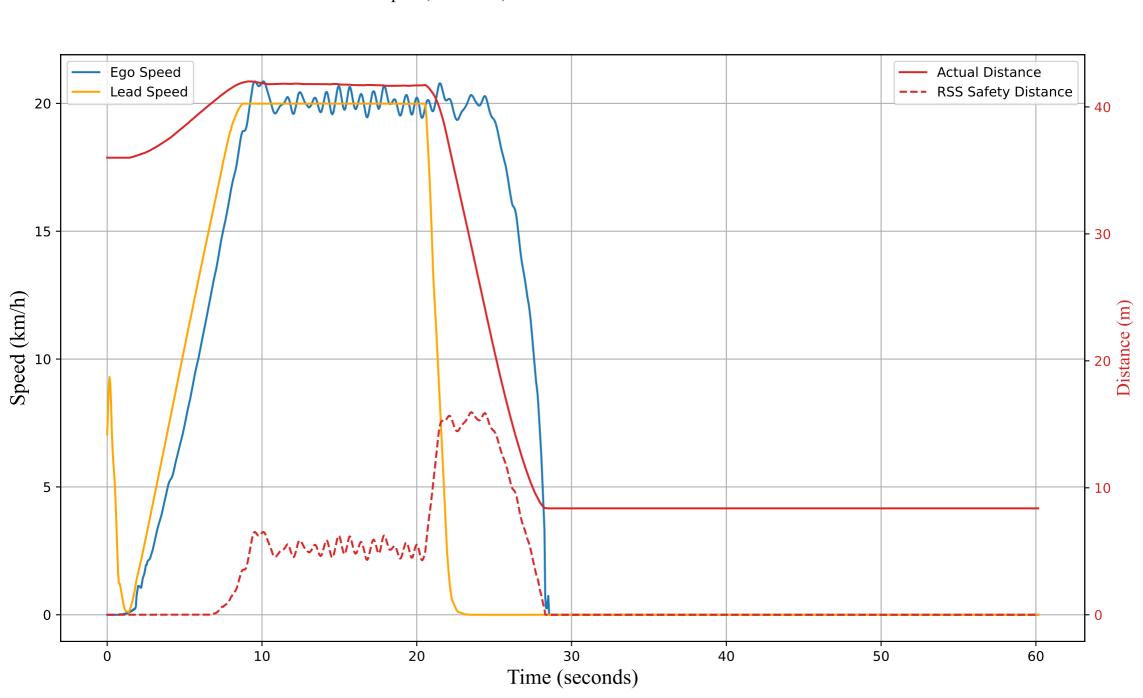
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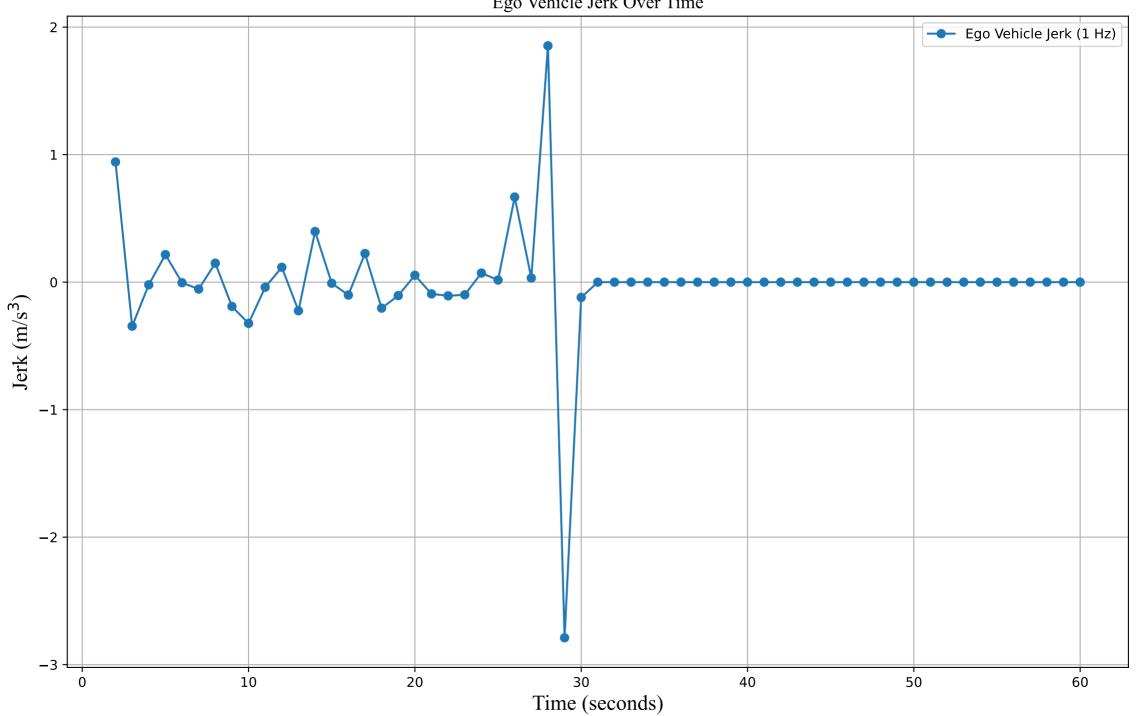


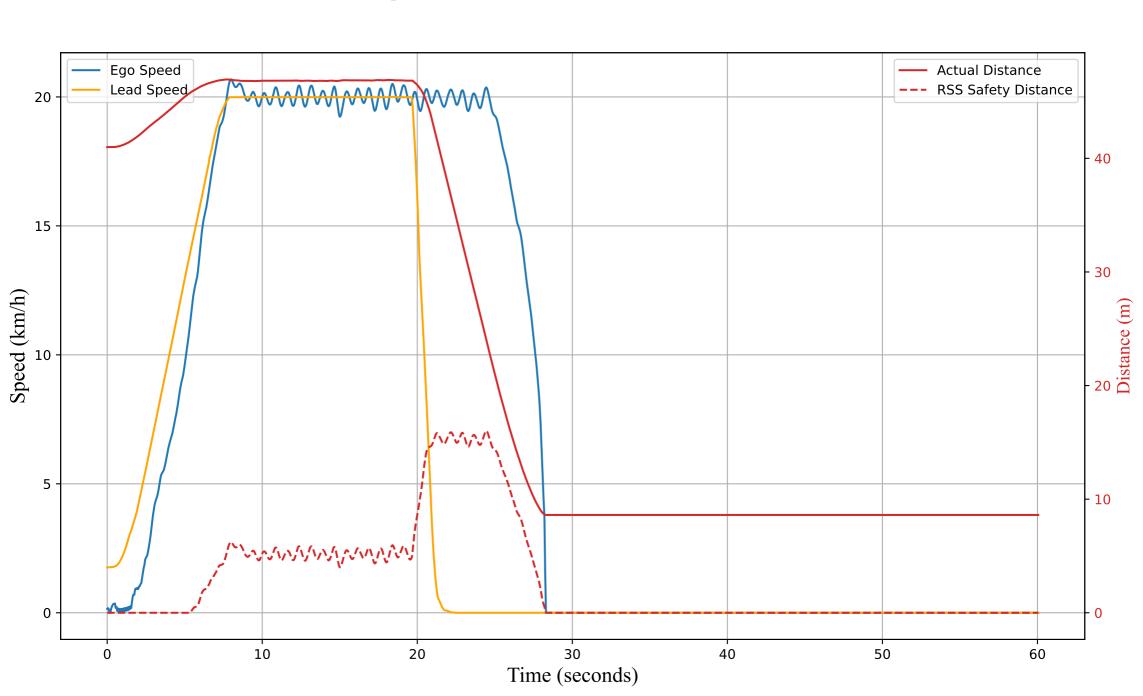
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=30 m Ego Vehicle Jerk Over Time



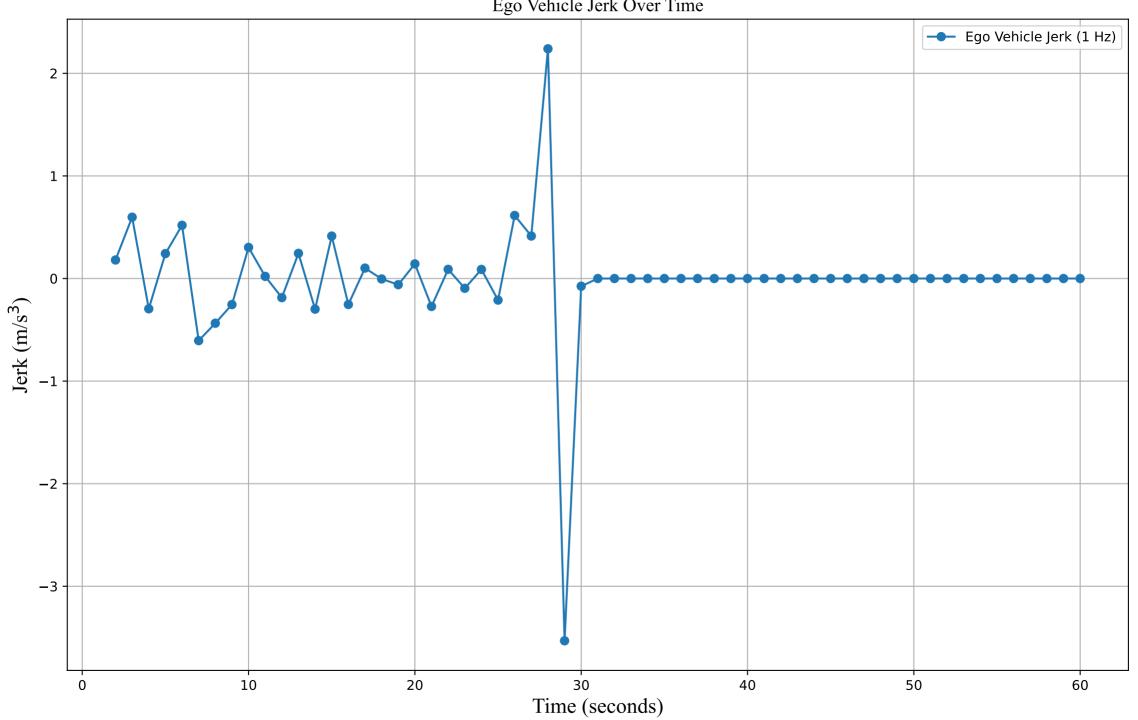


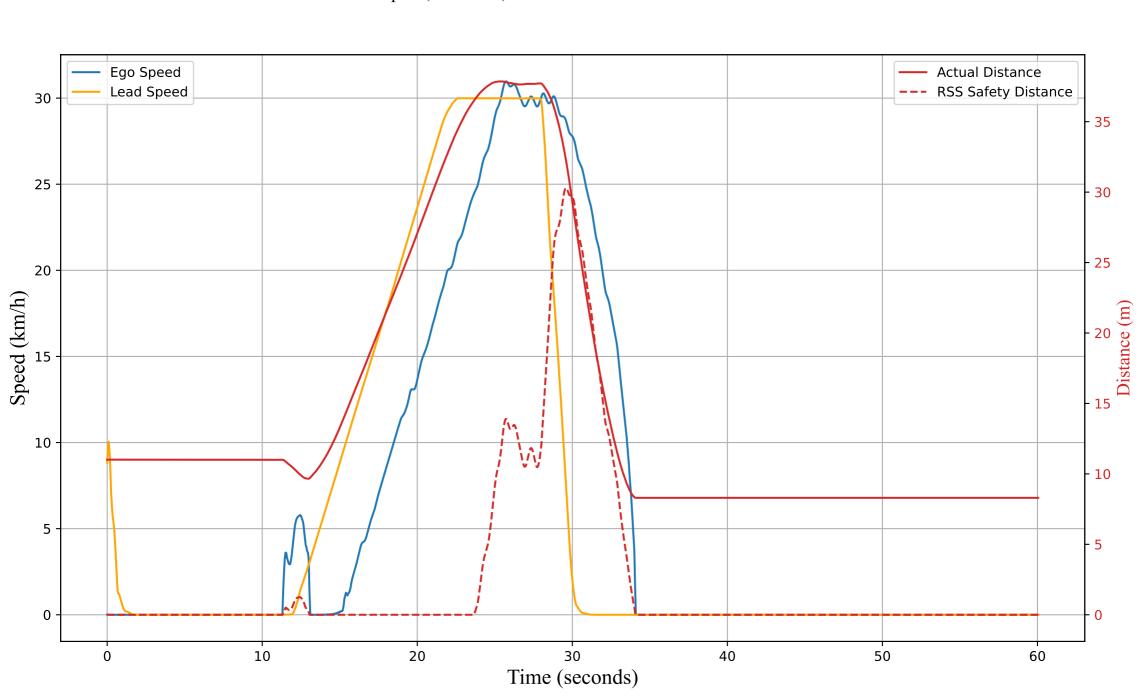
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



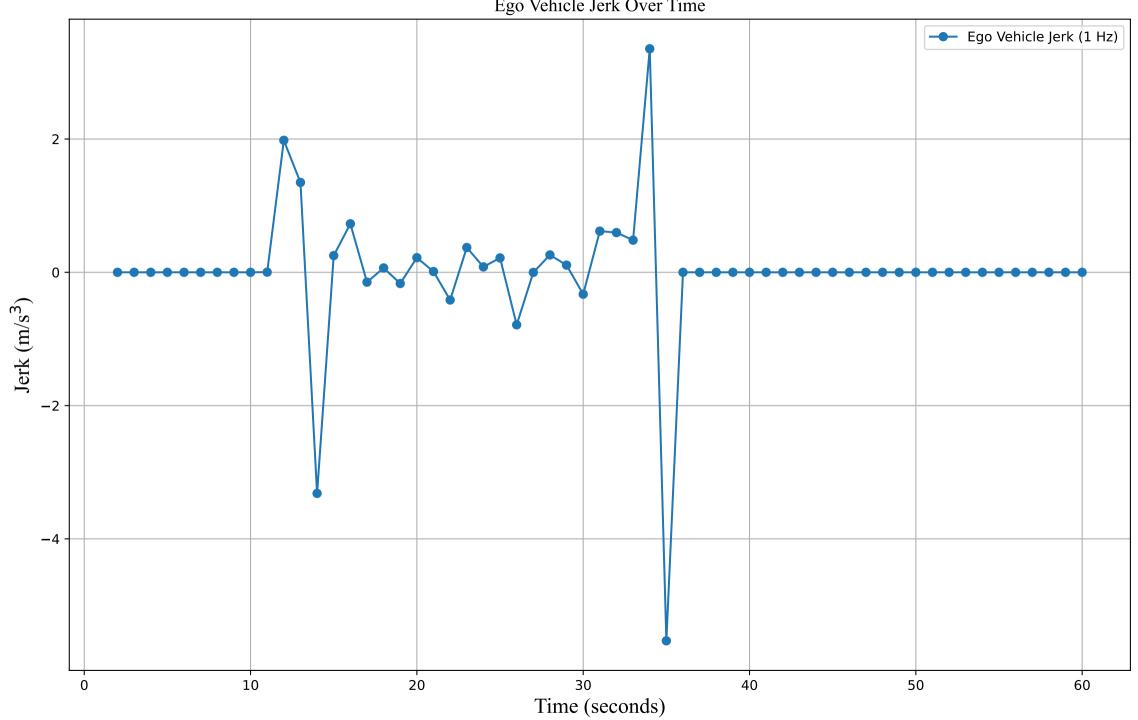


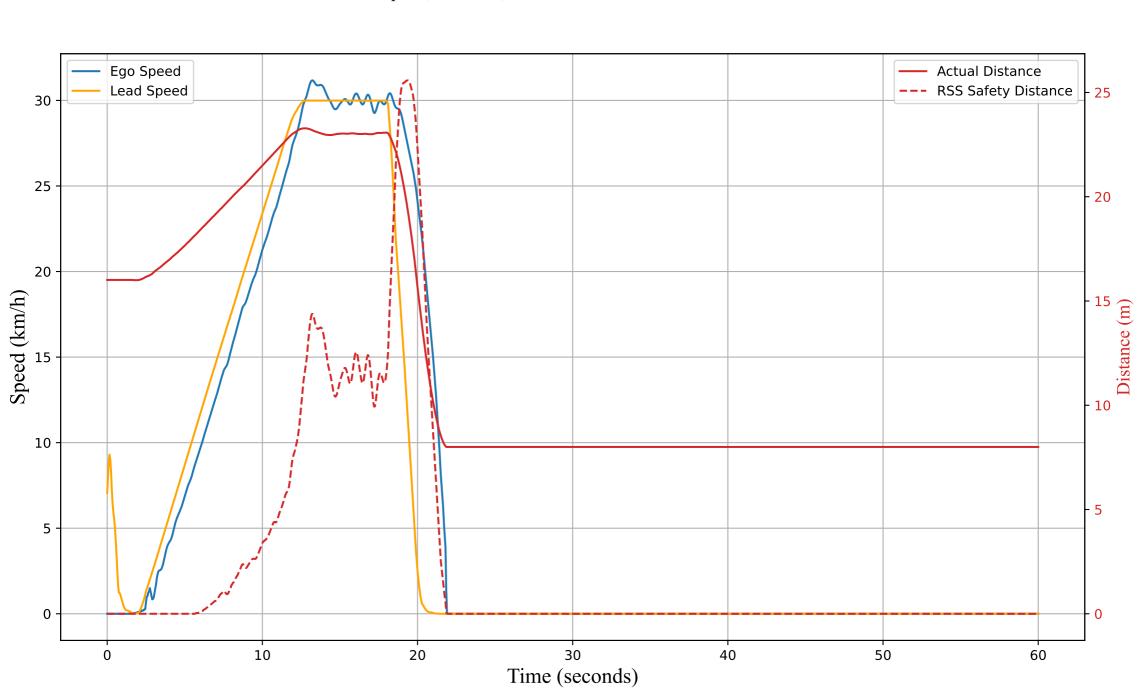
Ego Vehicle Speed=20 km/h, Lead Vehicle Speed=20 km/h, Initial Distance=40 m Ego Vehicle Jerk Over Time



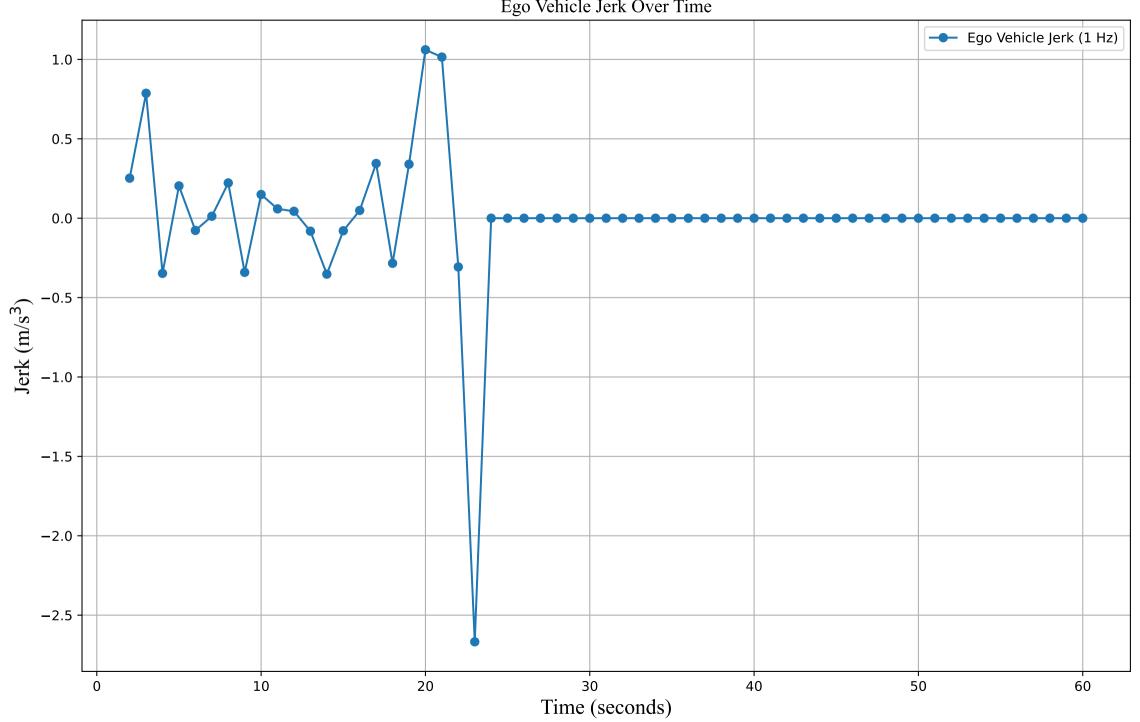


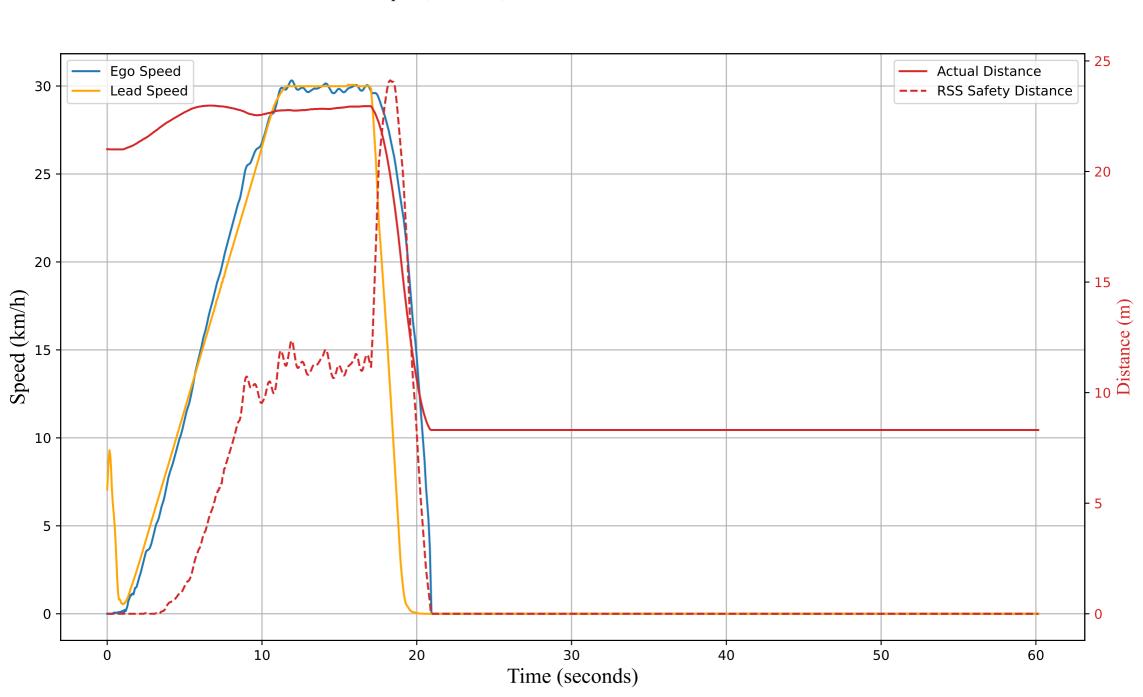
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=10 m Ego Vehicle Jerk Over Time



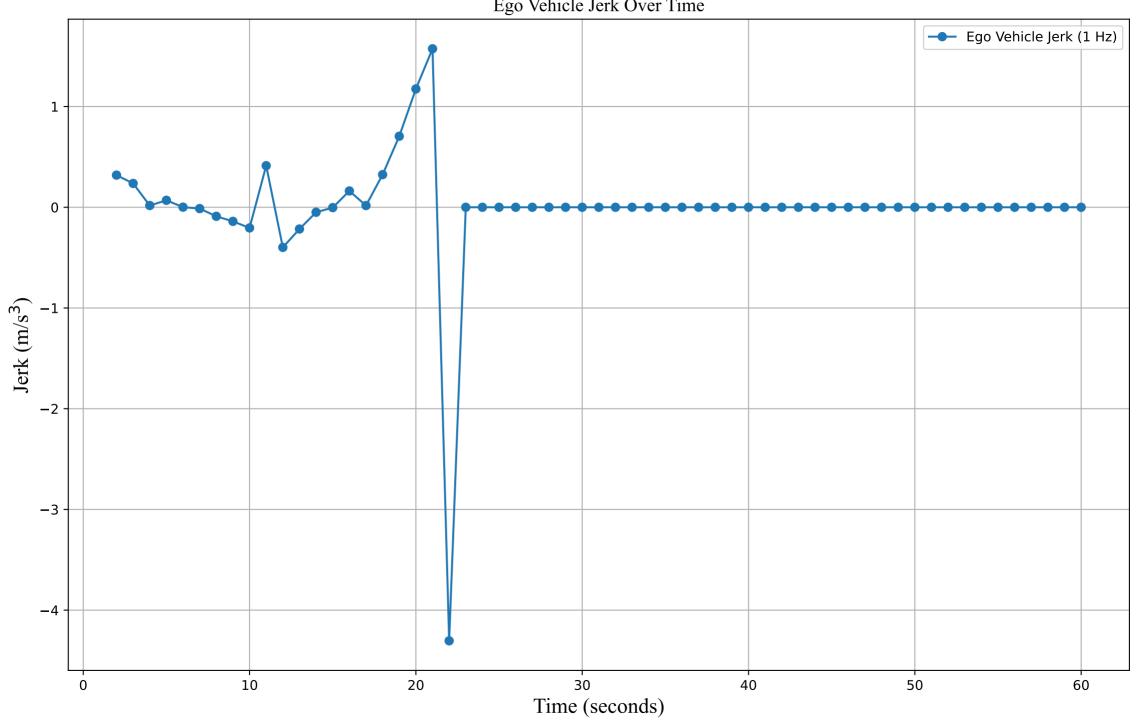


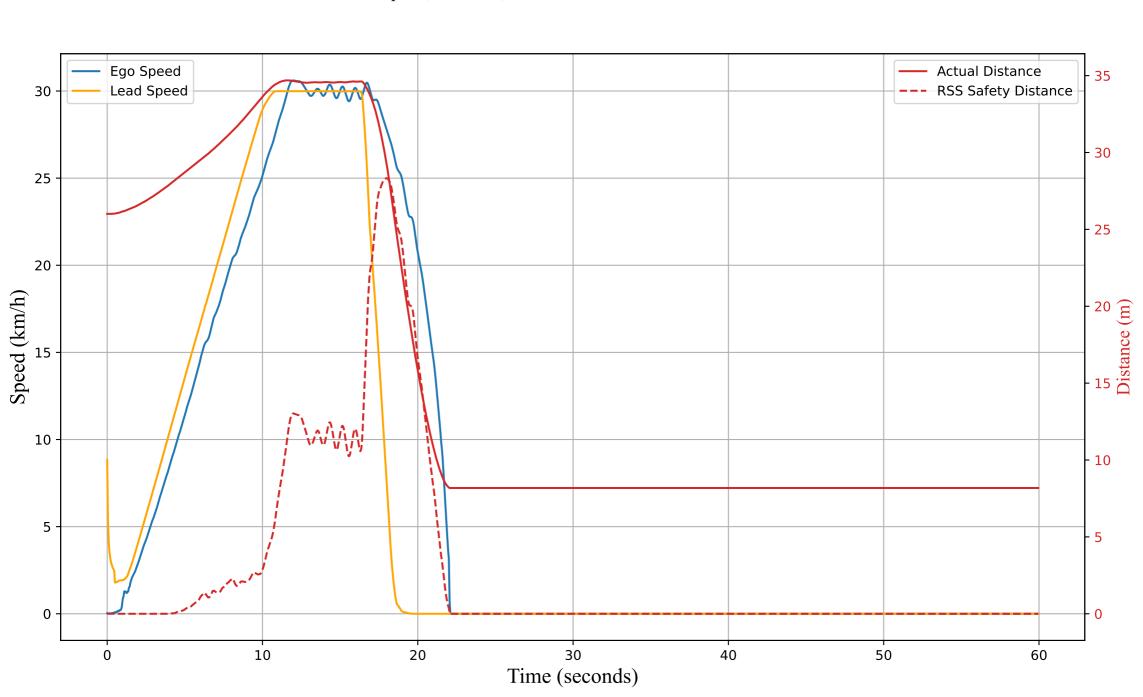
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



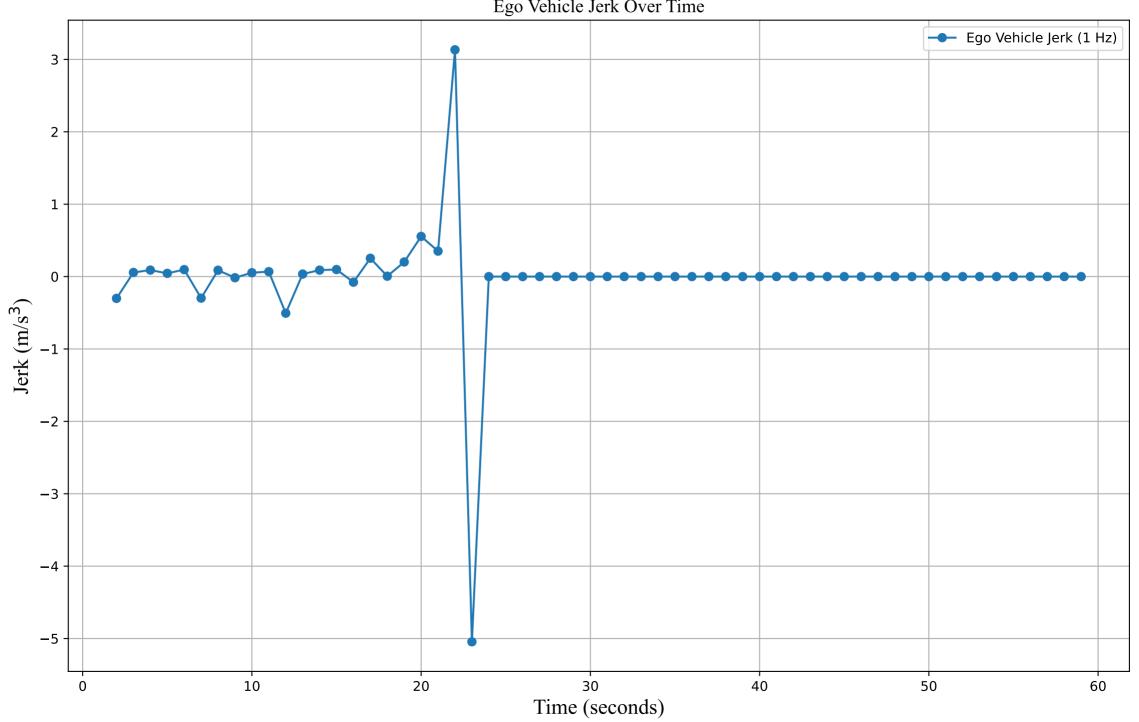


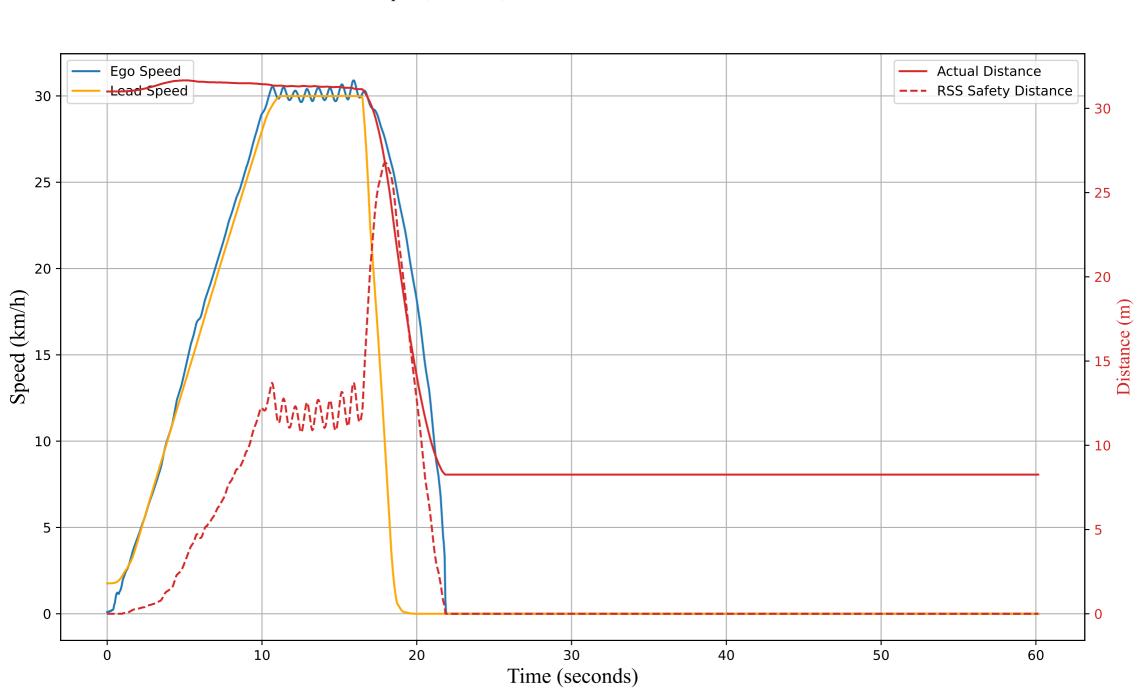
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=20 m Ego Vehicle Jerk Over Time



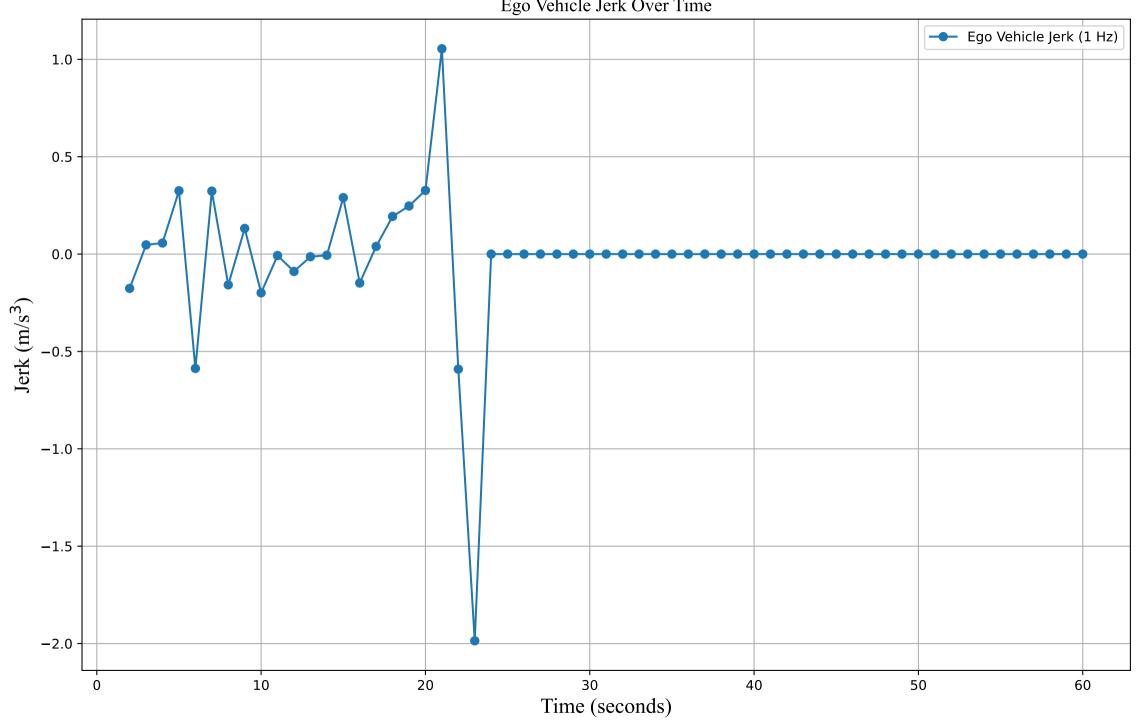


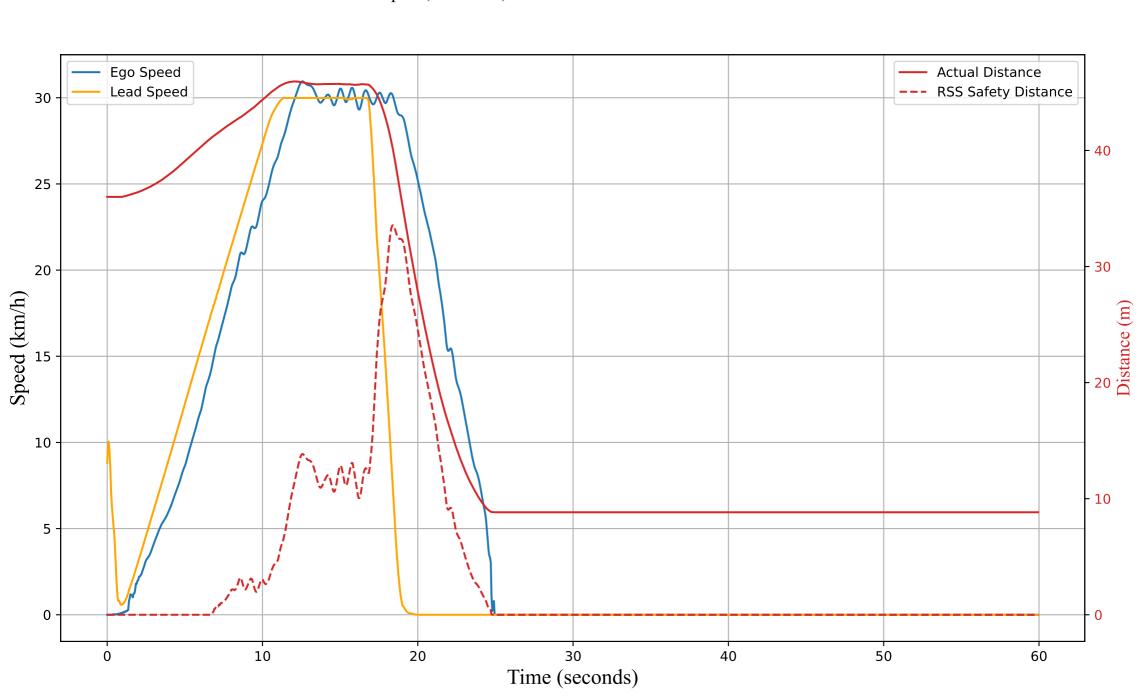
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=25 m Ego Vehicle Jerk Over Time



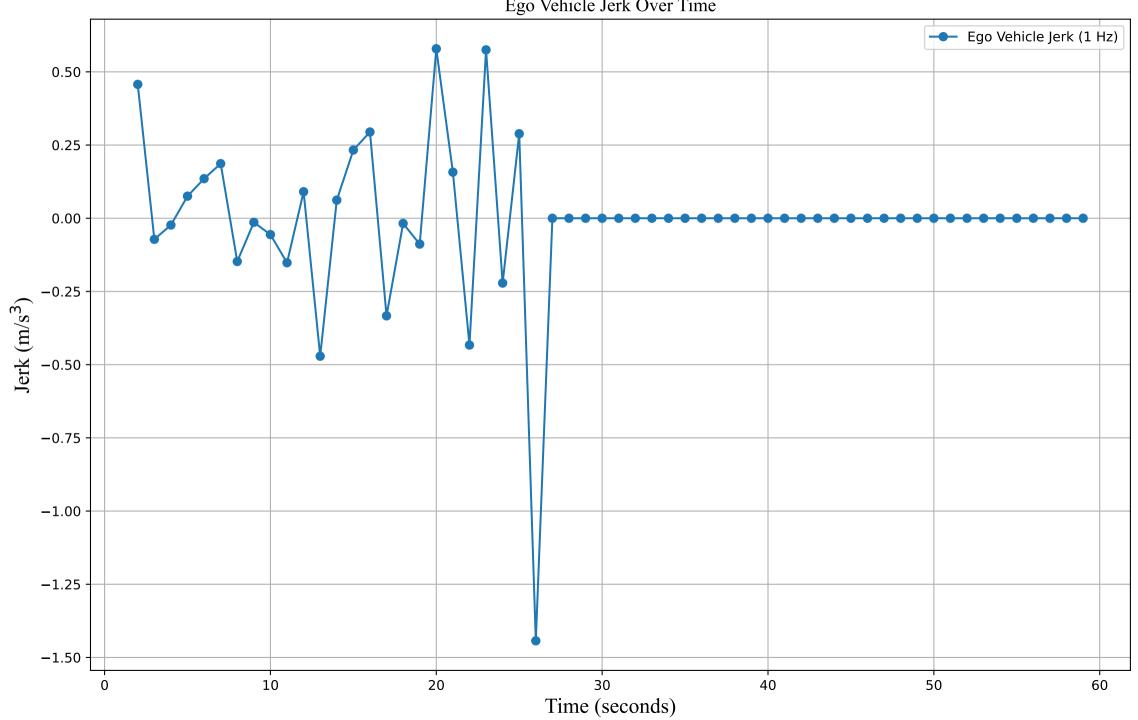


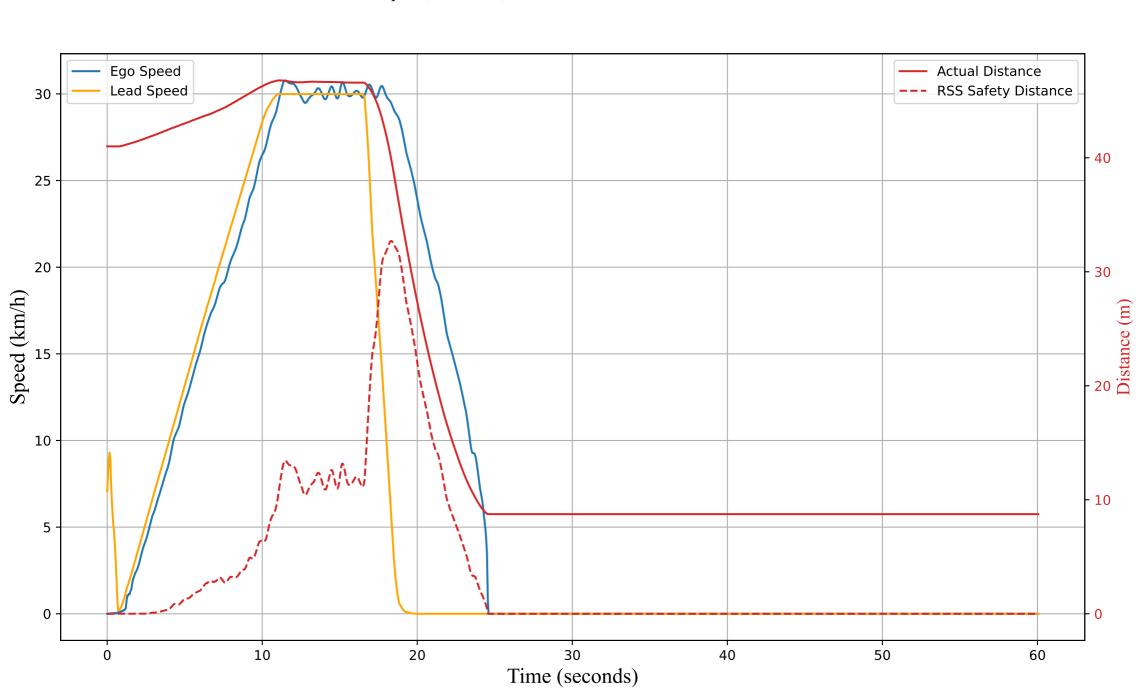
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=30 m Ego Vehicle Jerk Over Time



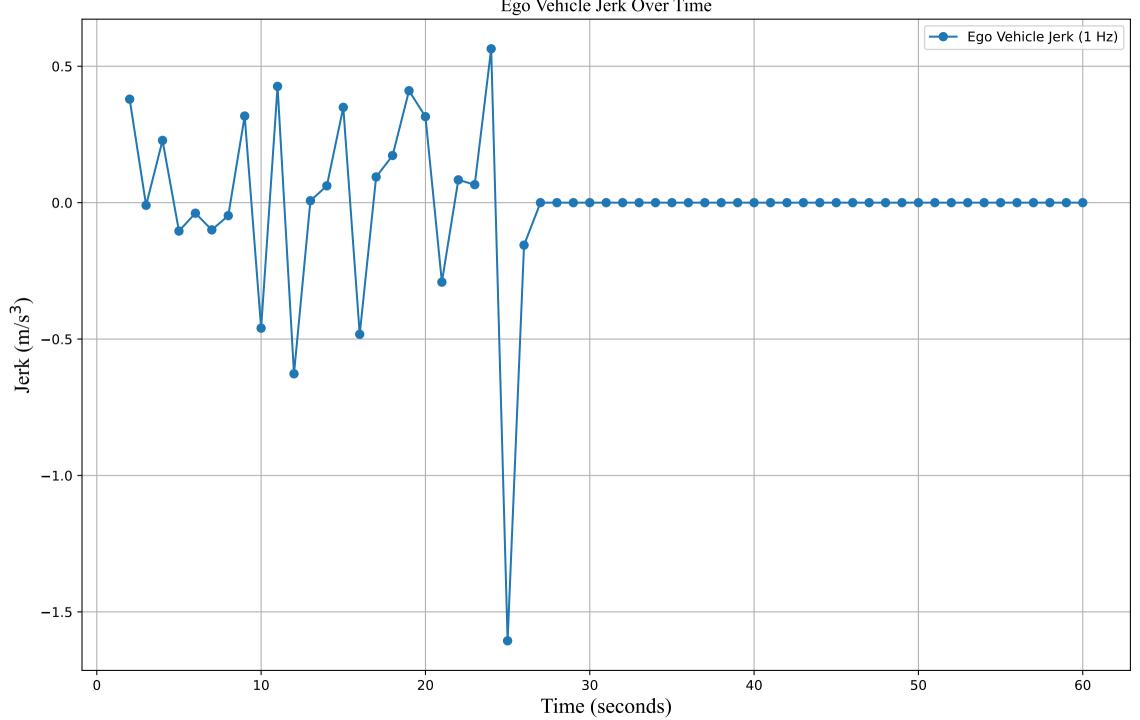


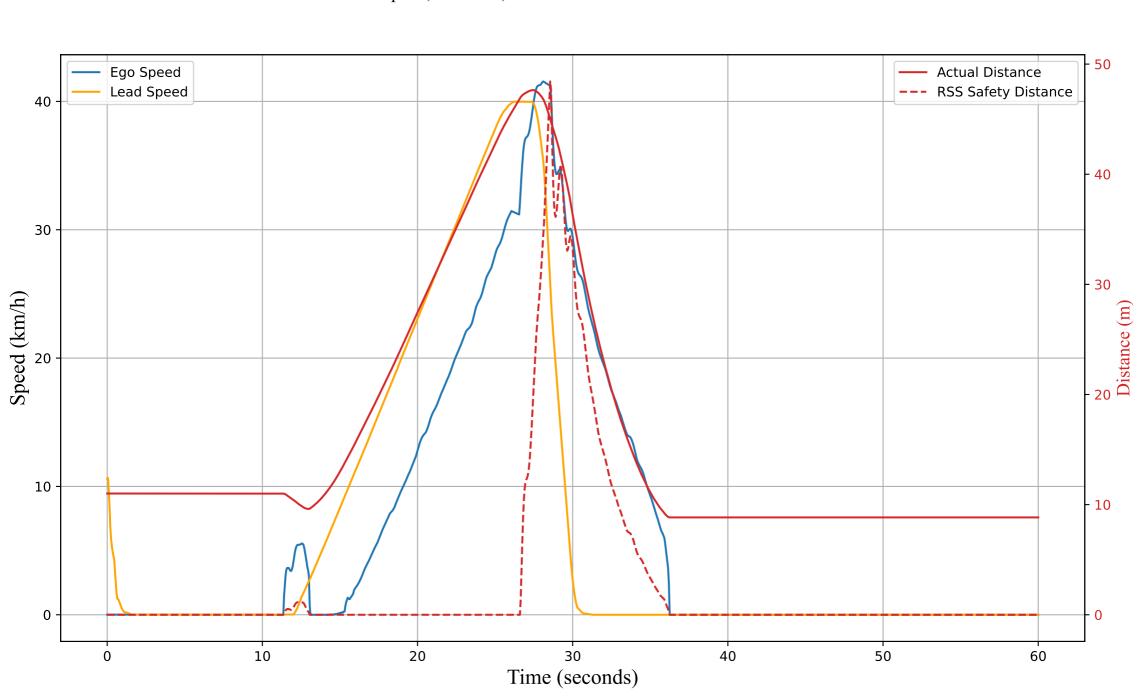
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



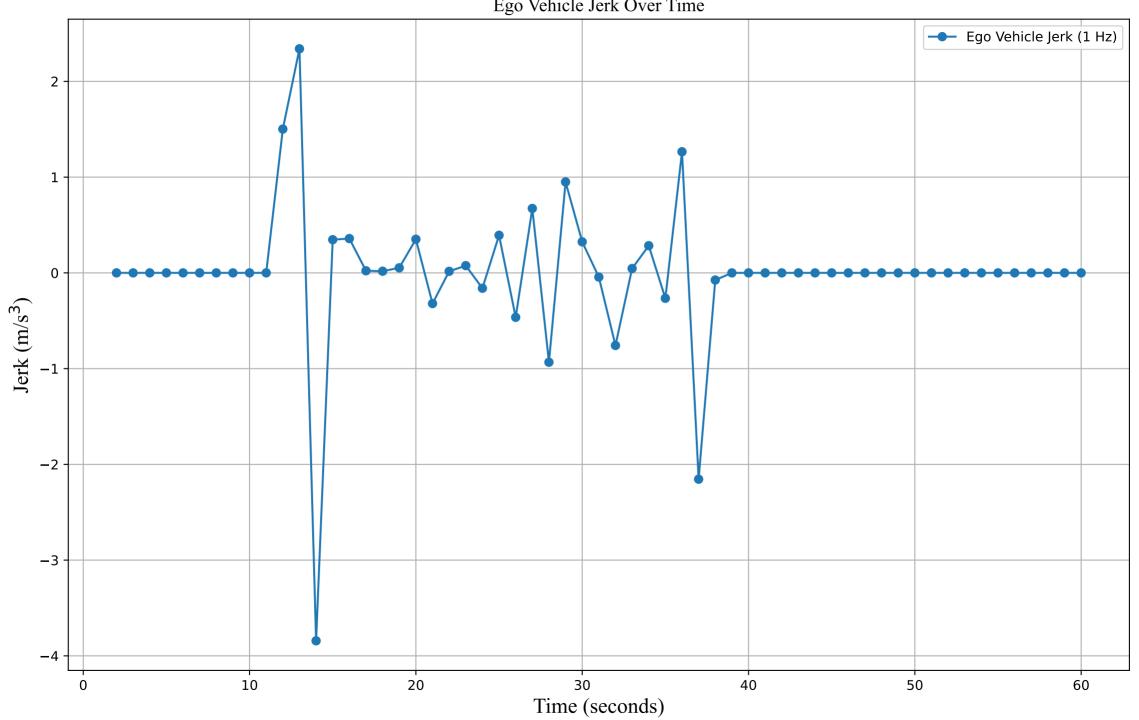


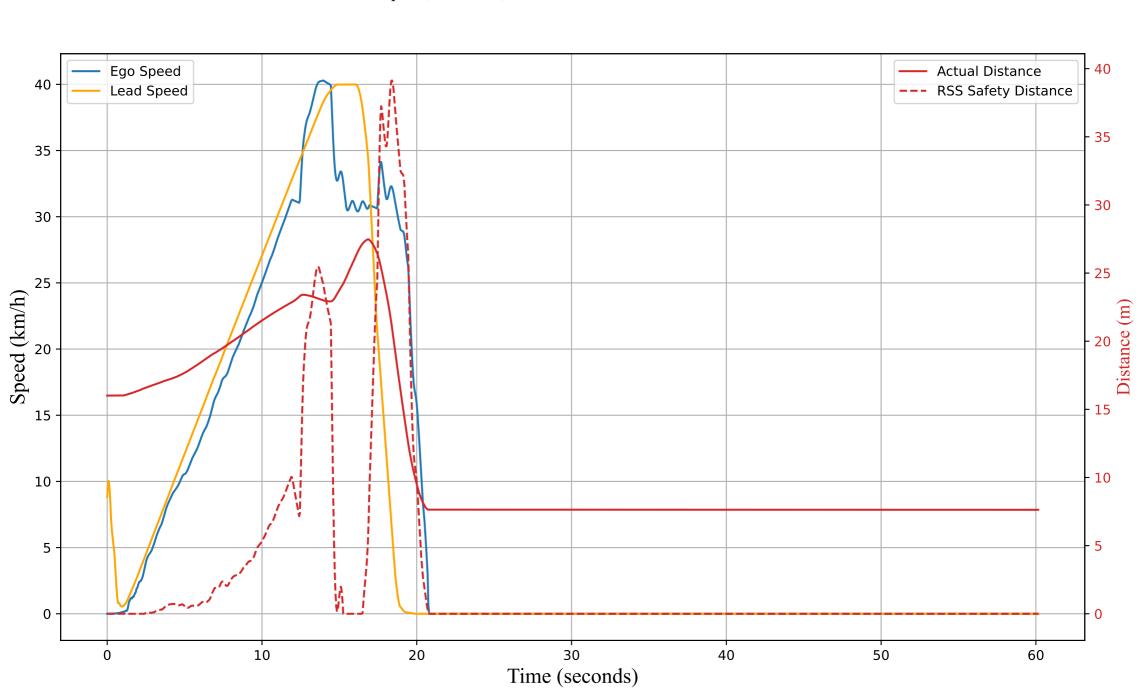
Ego Vehicle Speed=30 km/h, Lead Vehicle Speed=30 km/h, Initial Distance=40 m Ego Vehicle Jerk Over Time



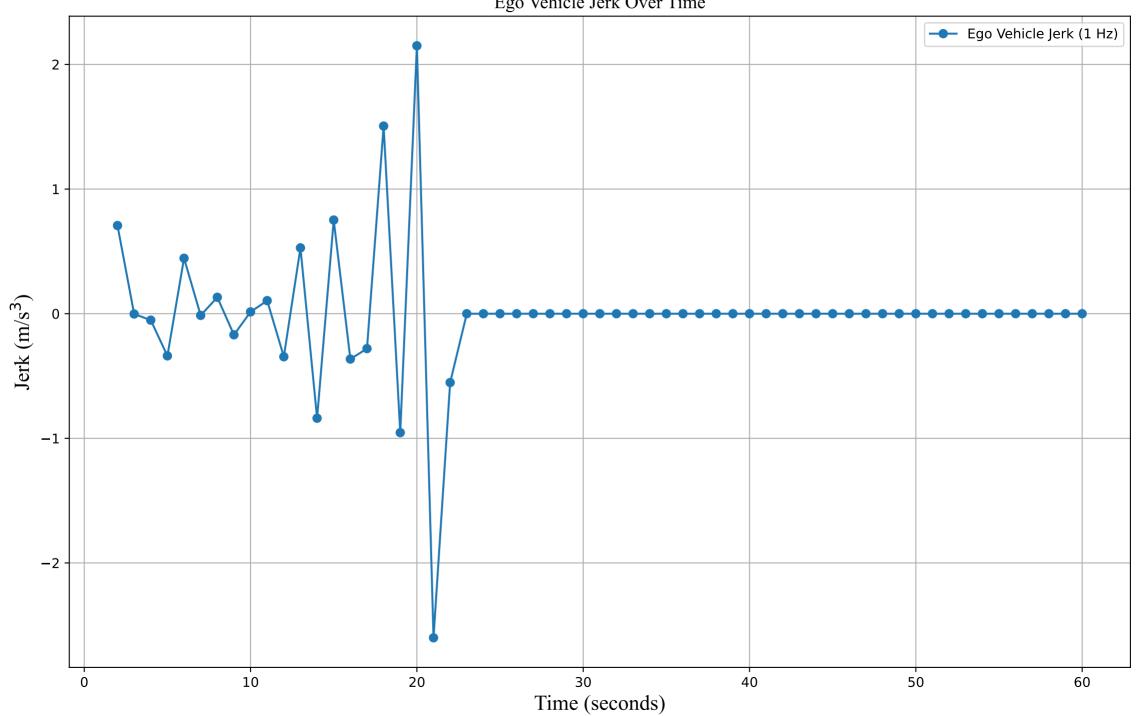


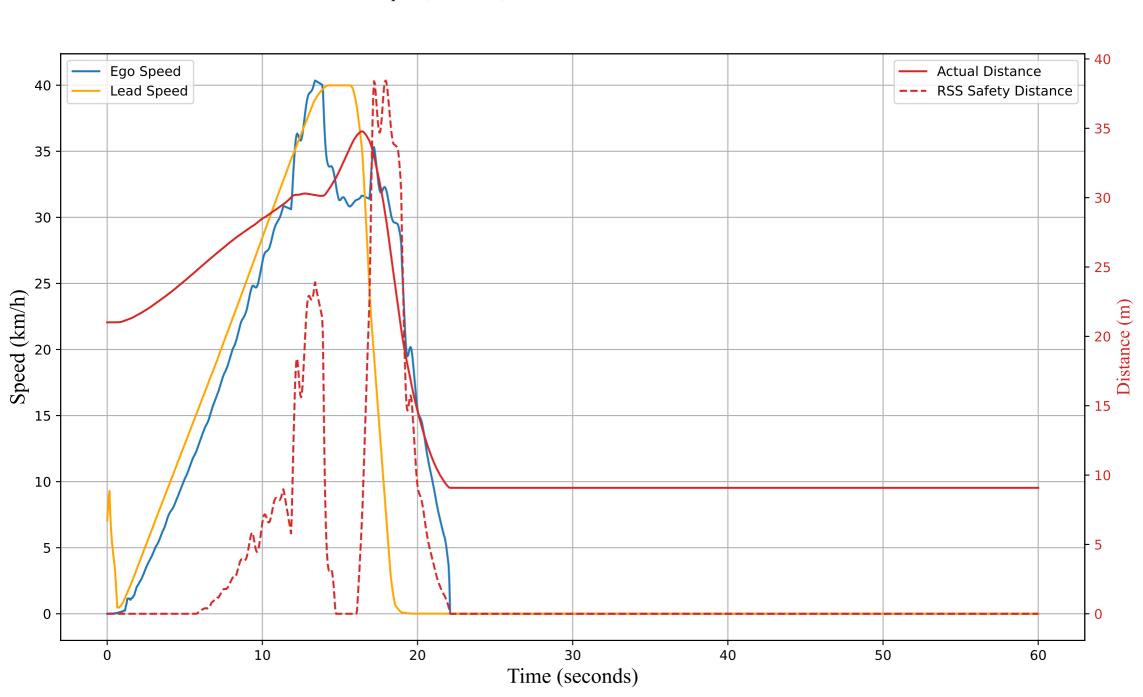
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=10 m Ego Vehicle Jerk Over Time



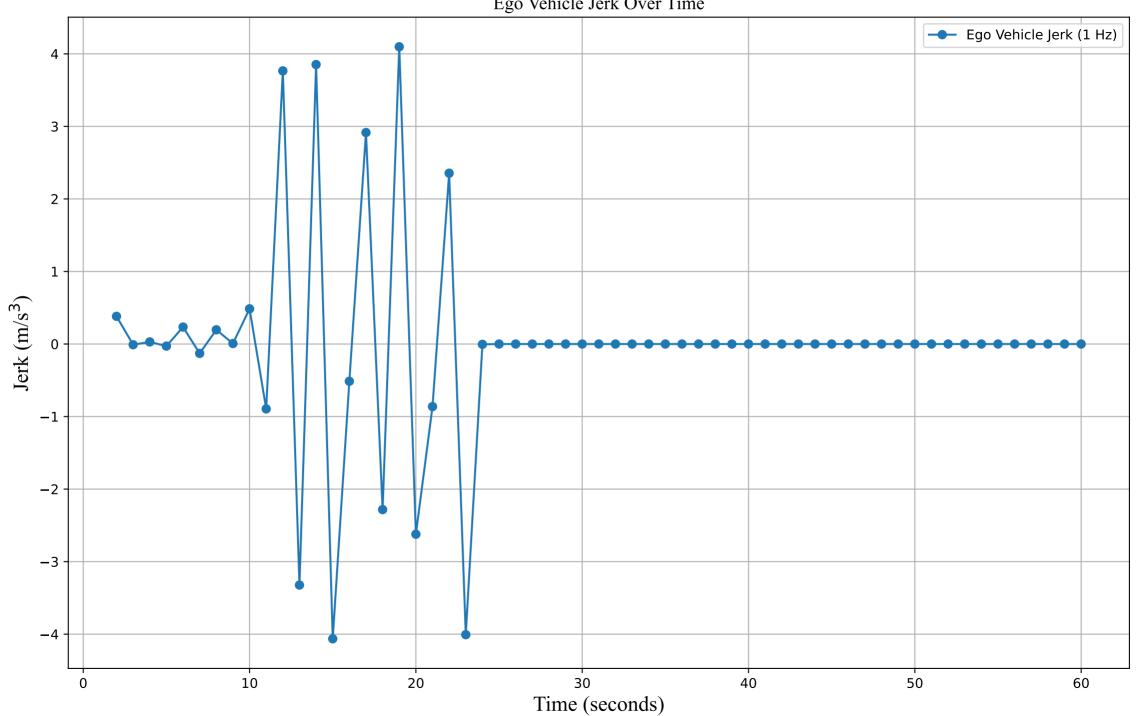


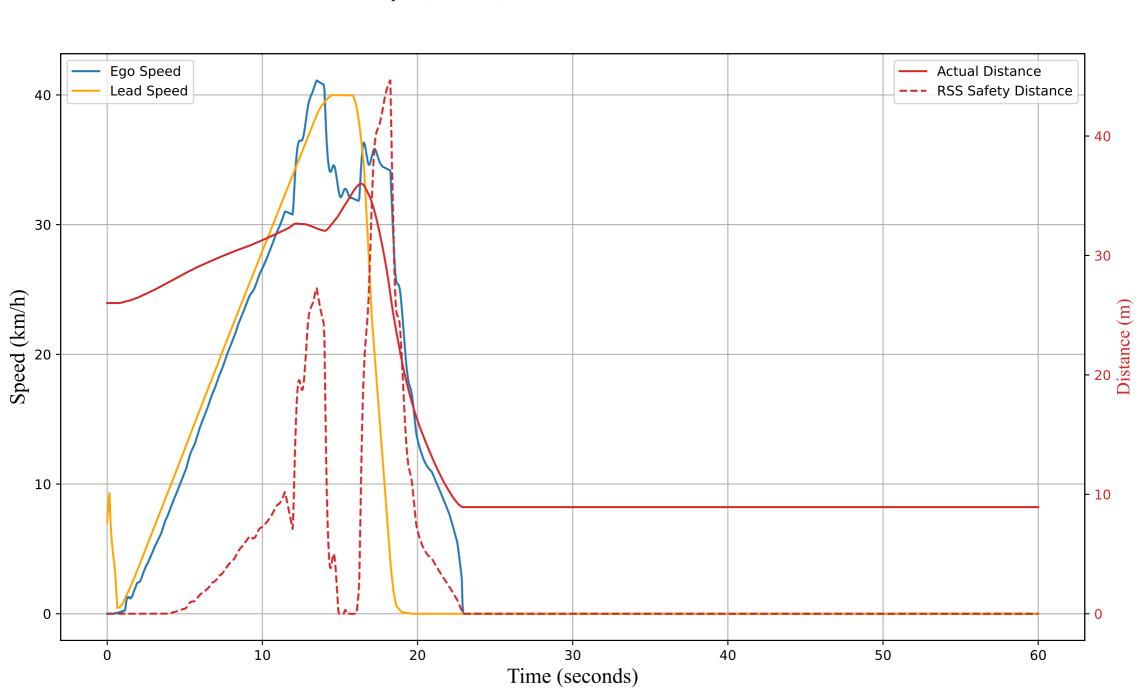
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



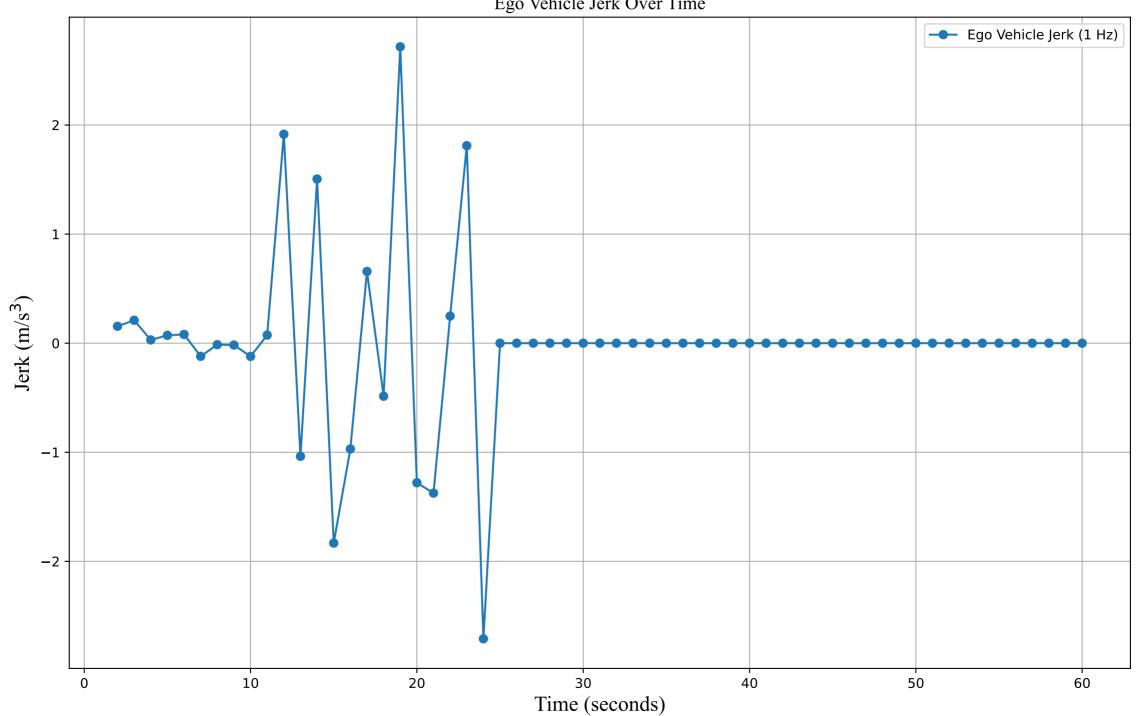


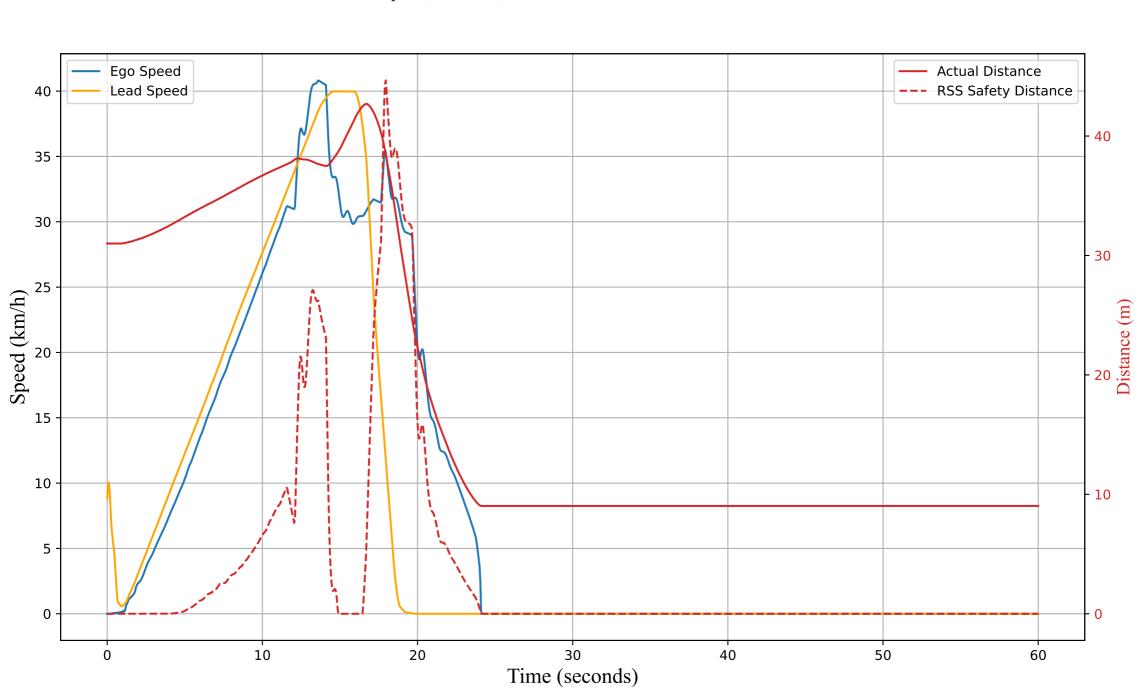
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=20 m Ego Vehicle Jerk Over Time



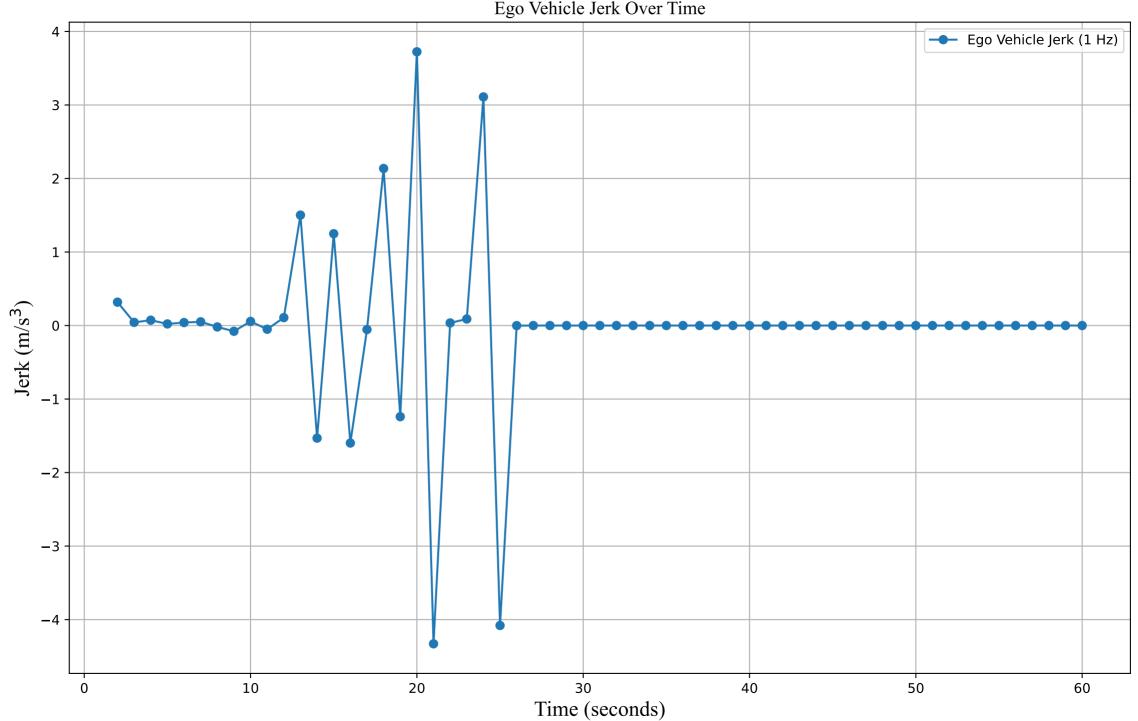


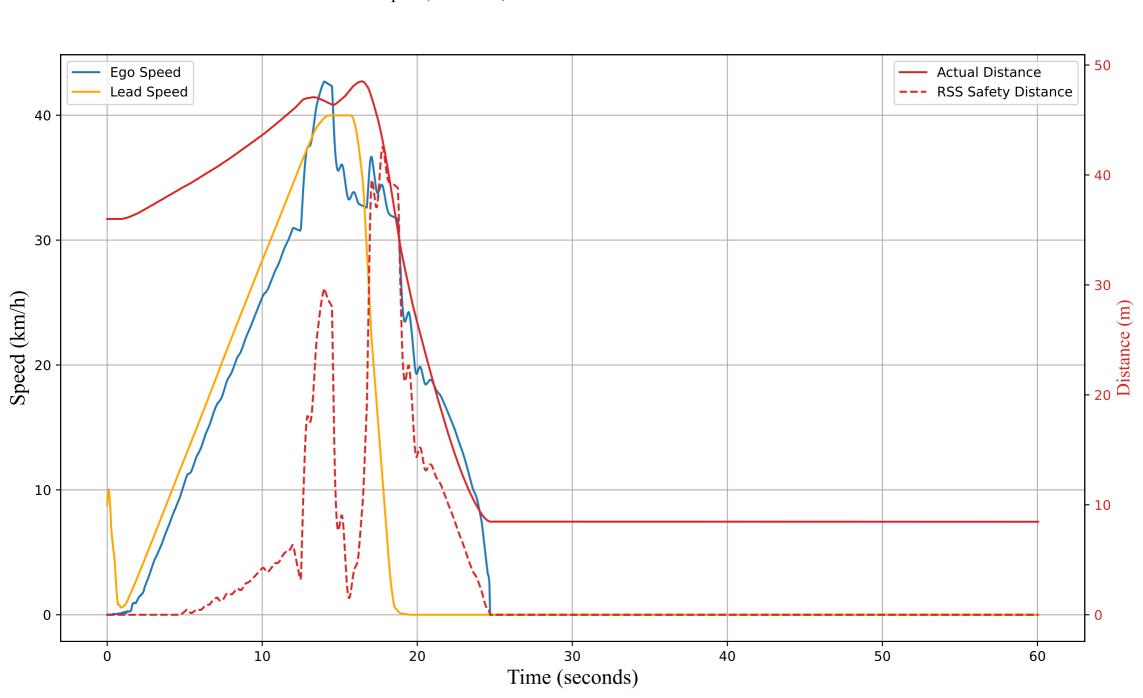
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=25 m Ego Vehicle Jerk Over Time



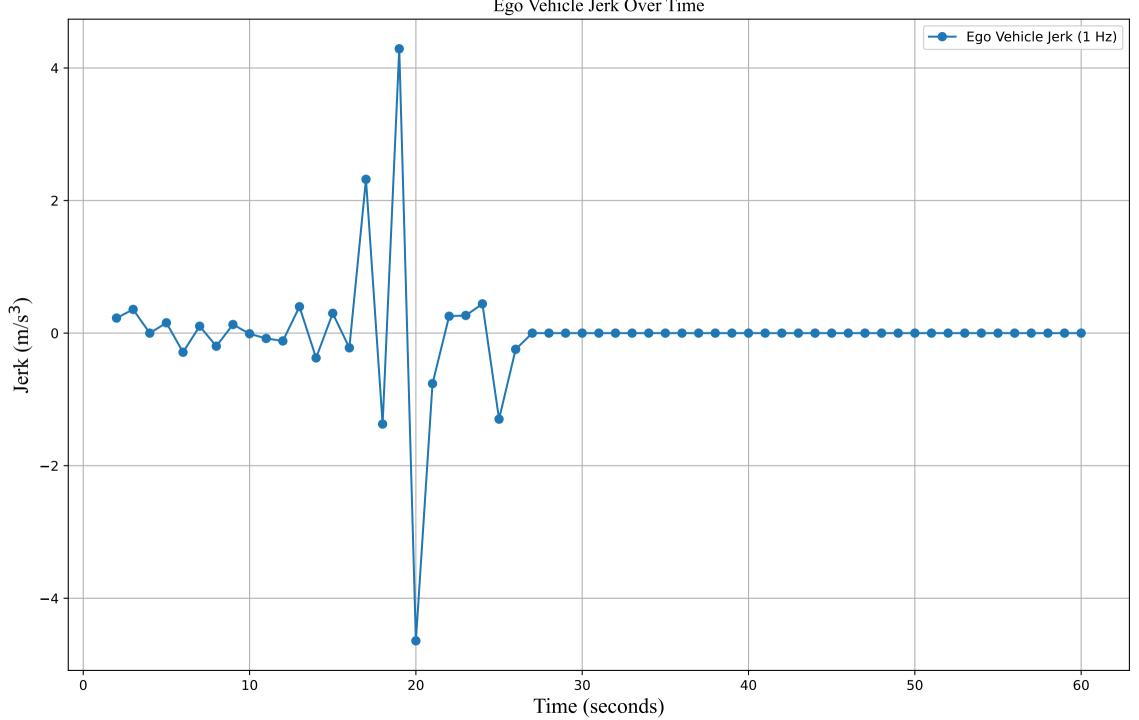


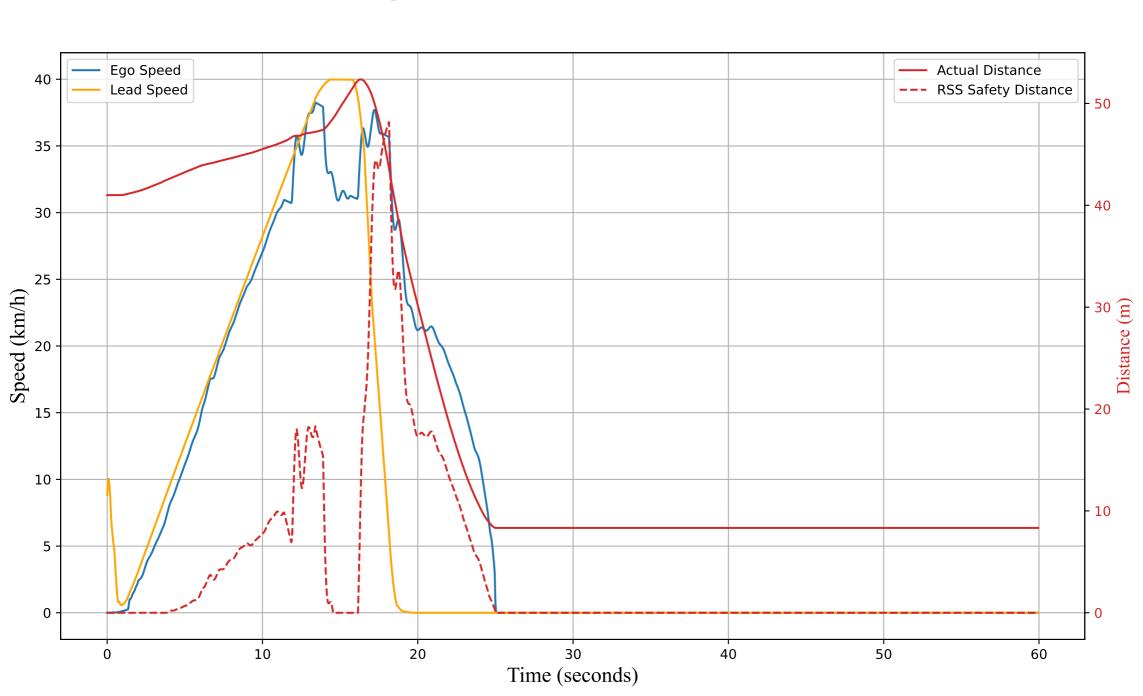
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=30 m Ego Vehicle Jerk Over Time



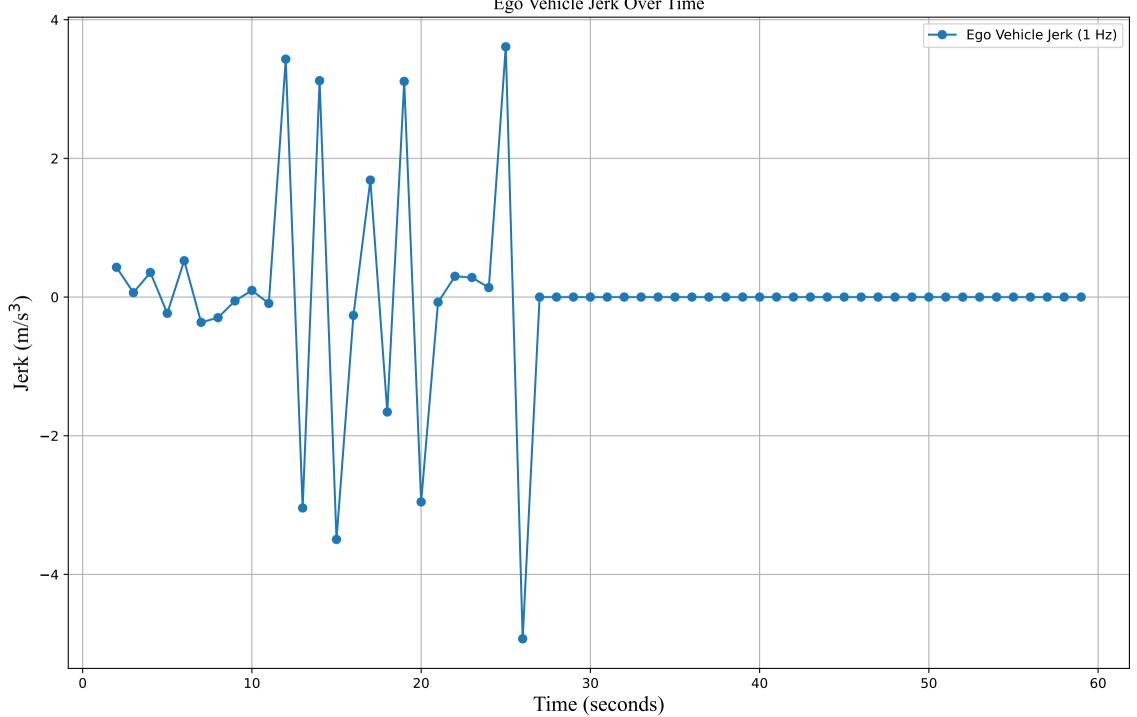


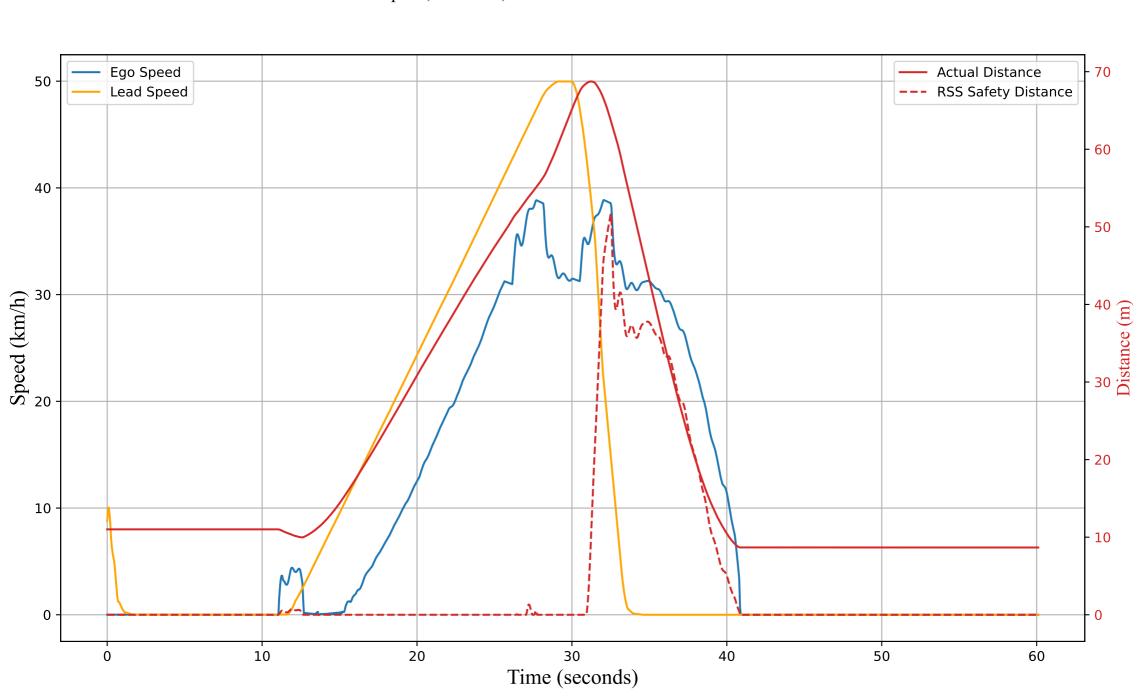
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time



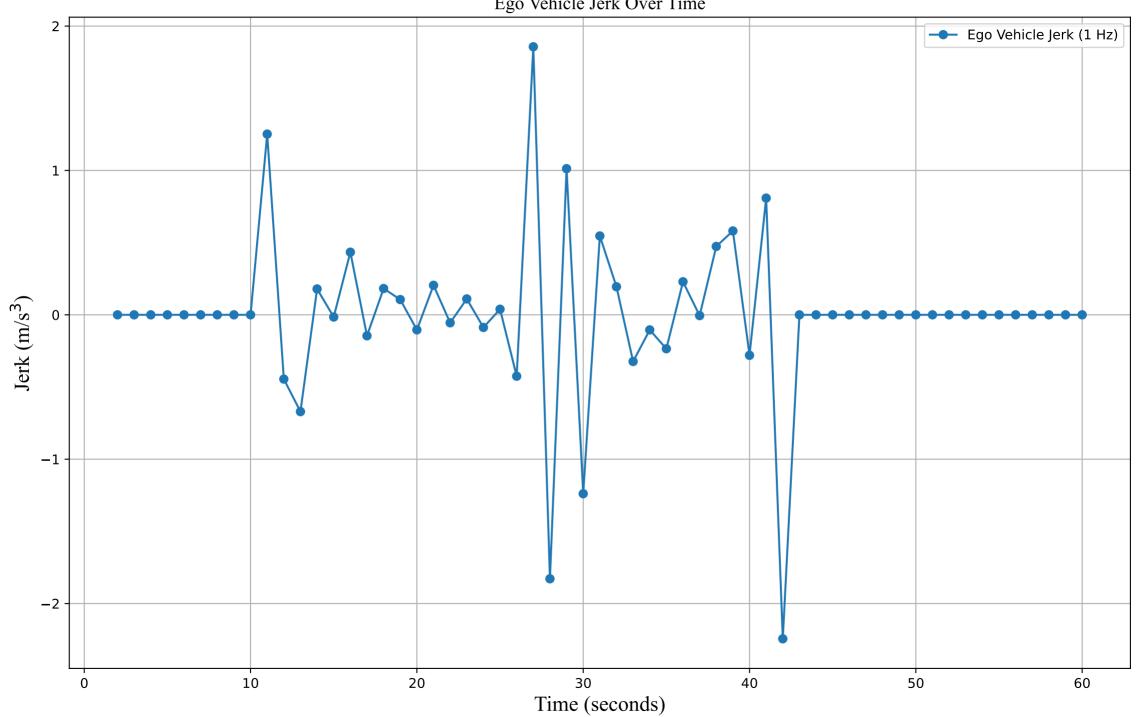


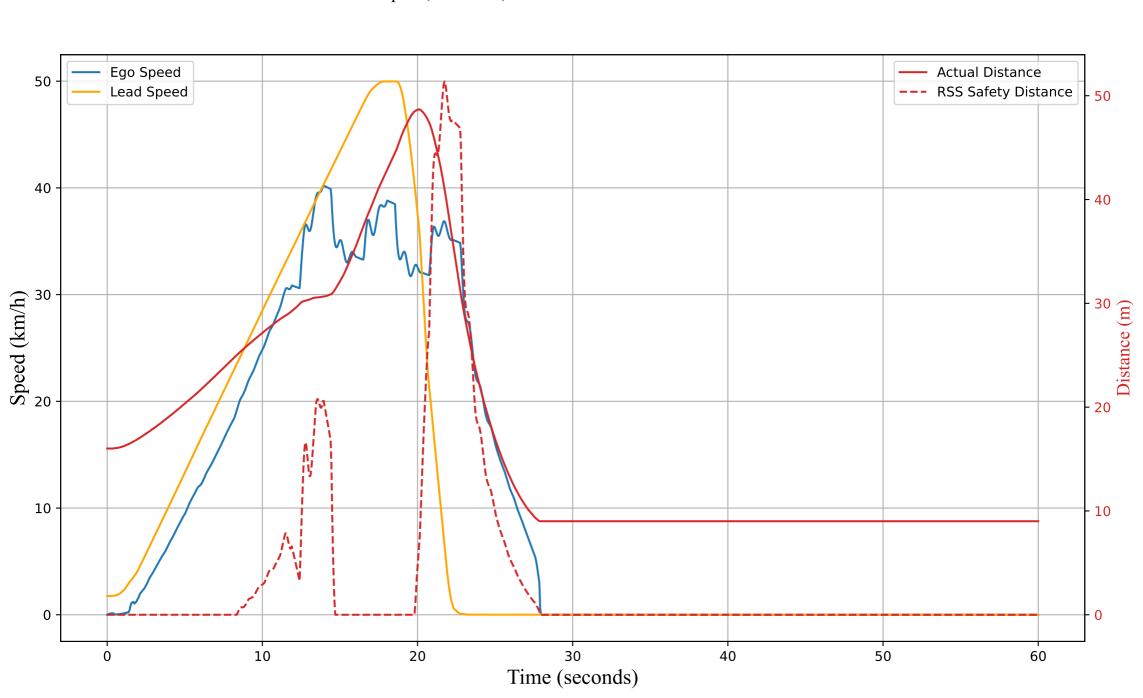
Ego Vehicle Speed=40 km/h, Lead Vehicle Speed=40 km/h, Initial Distance=40 m Ego Vehicle Jerk Over Time



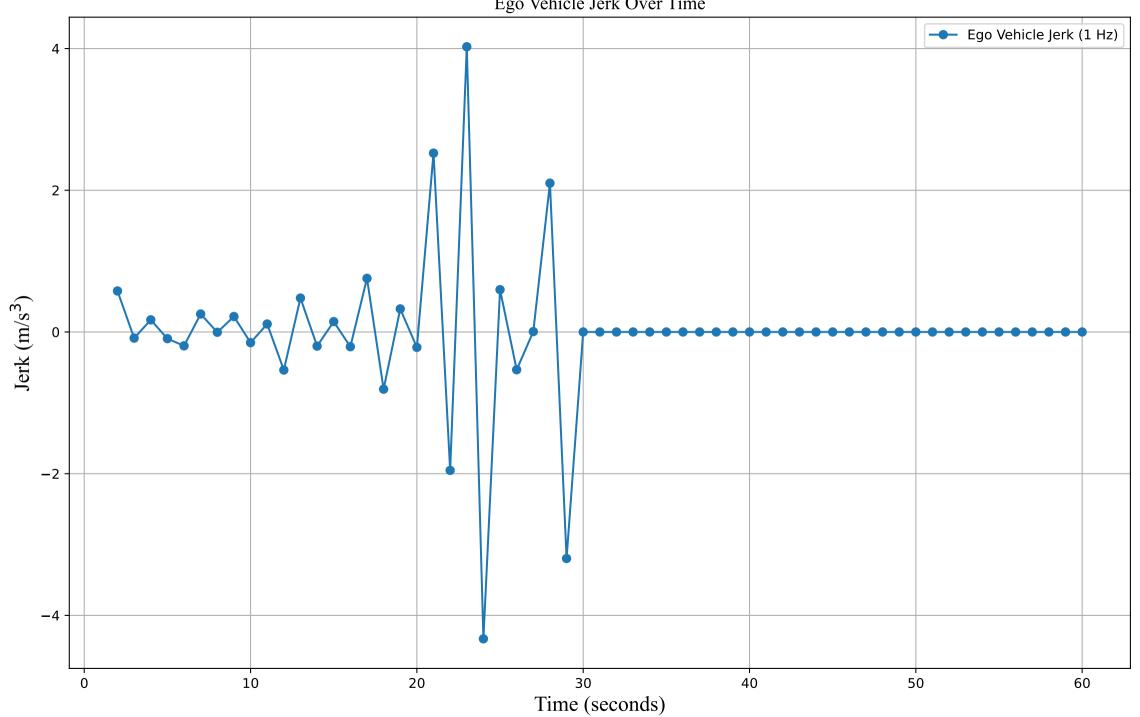


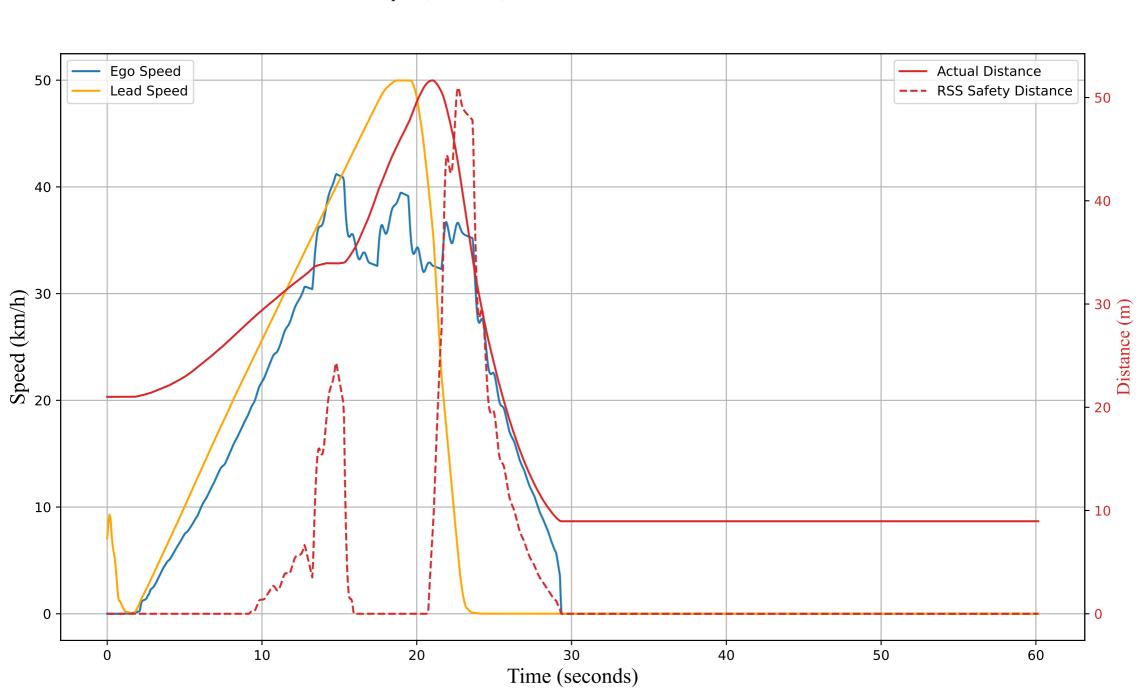
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=10 m Ego Vehicle Jerk Over Time



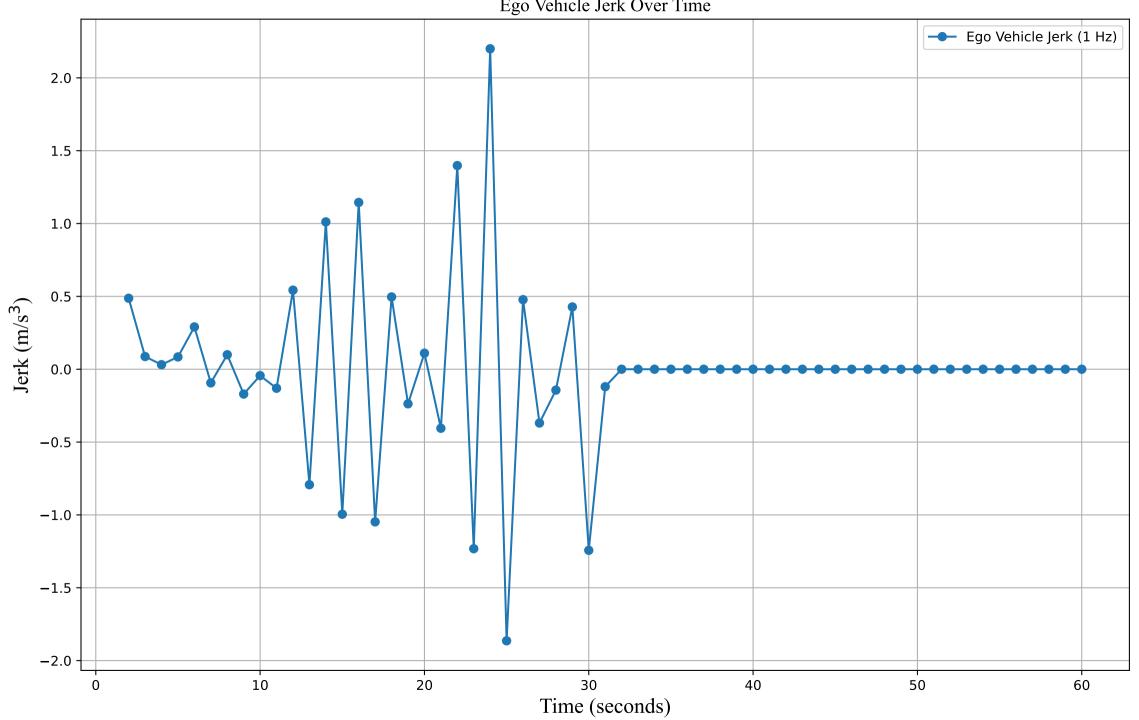


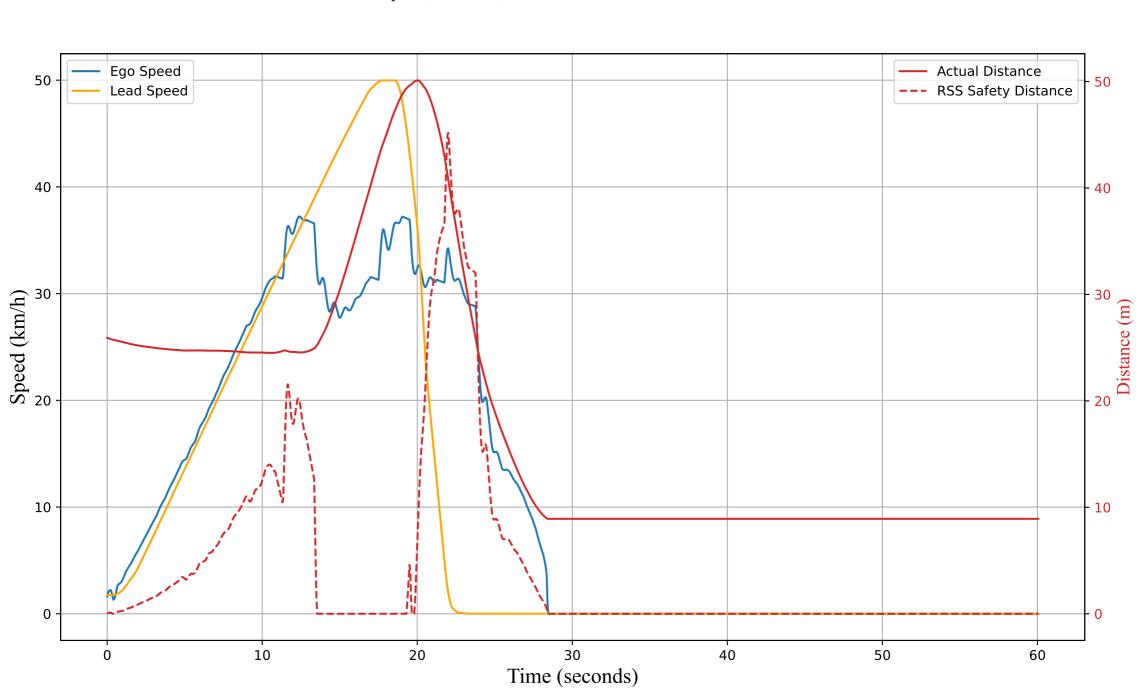
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=15 m Ego Vehicle Jerk Over Time



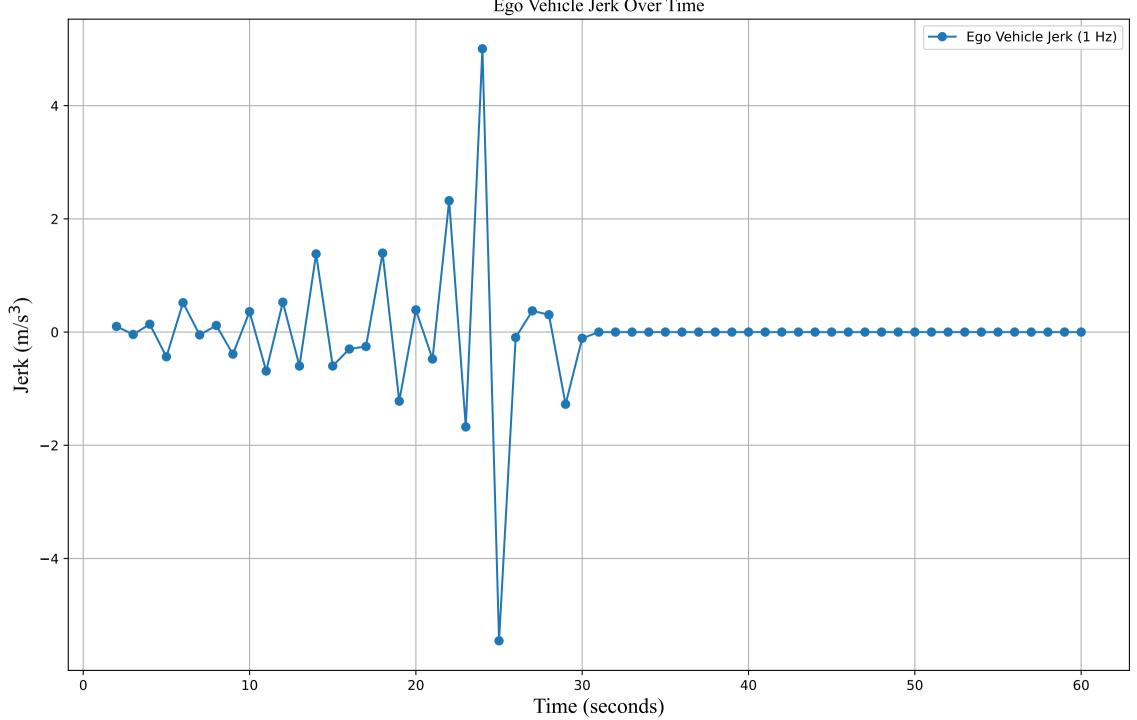


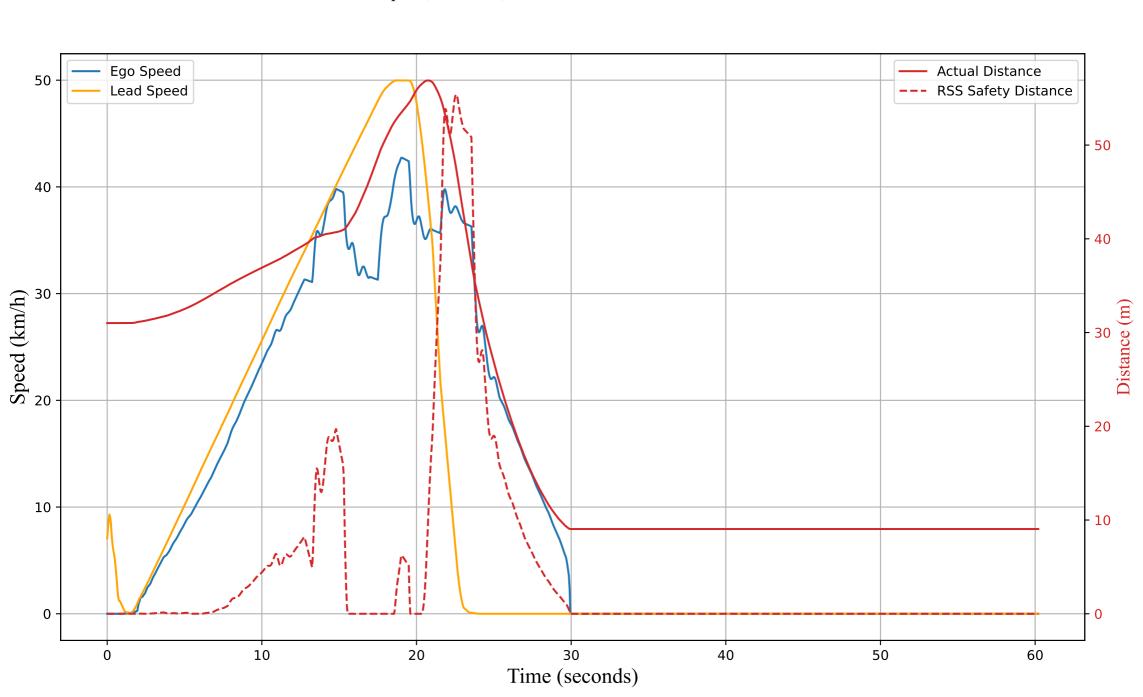
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=20 m Ego Vehicle Jerk Over Time



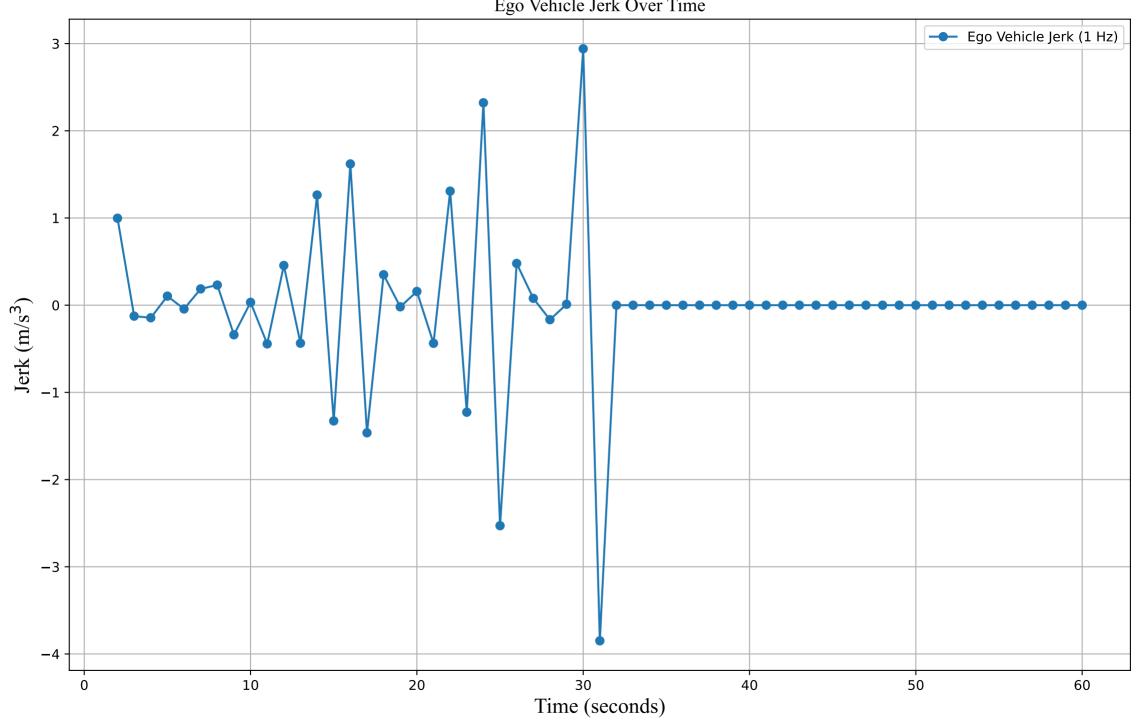


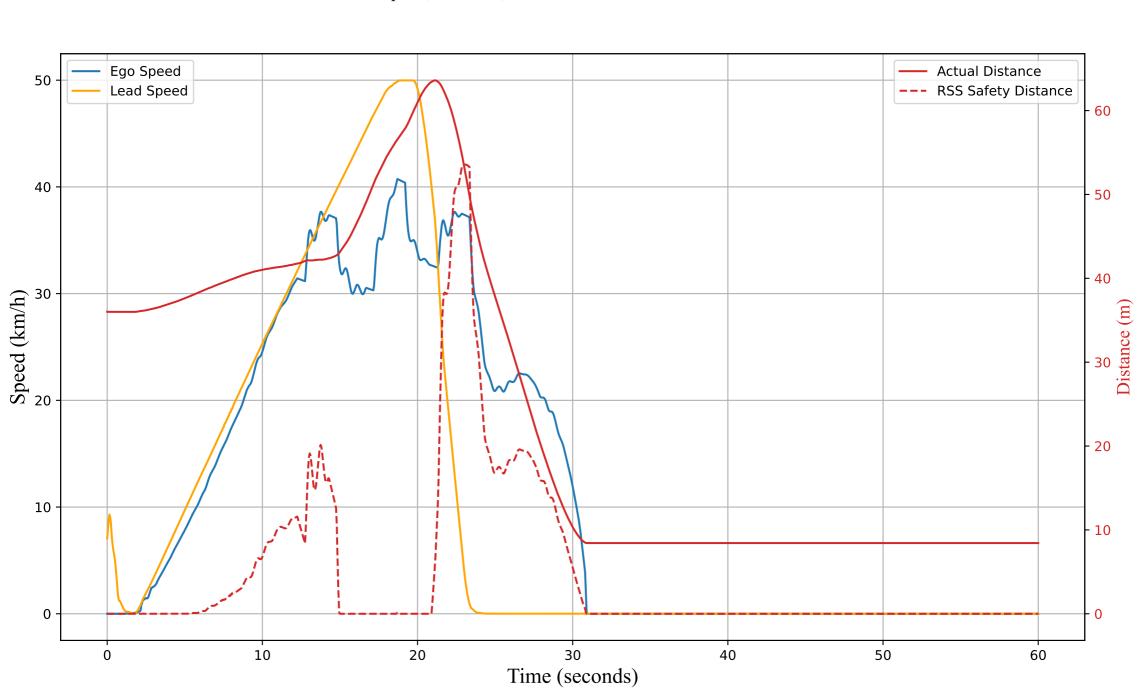
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=25 m Ego Vehicle Jerk Over Time



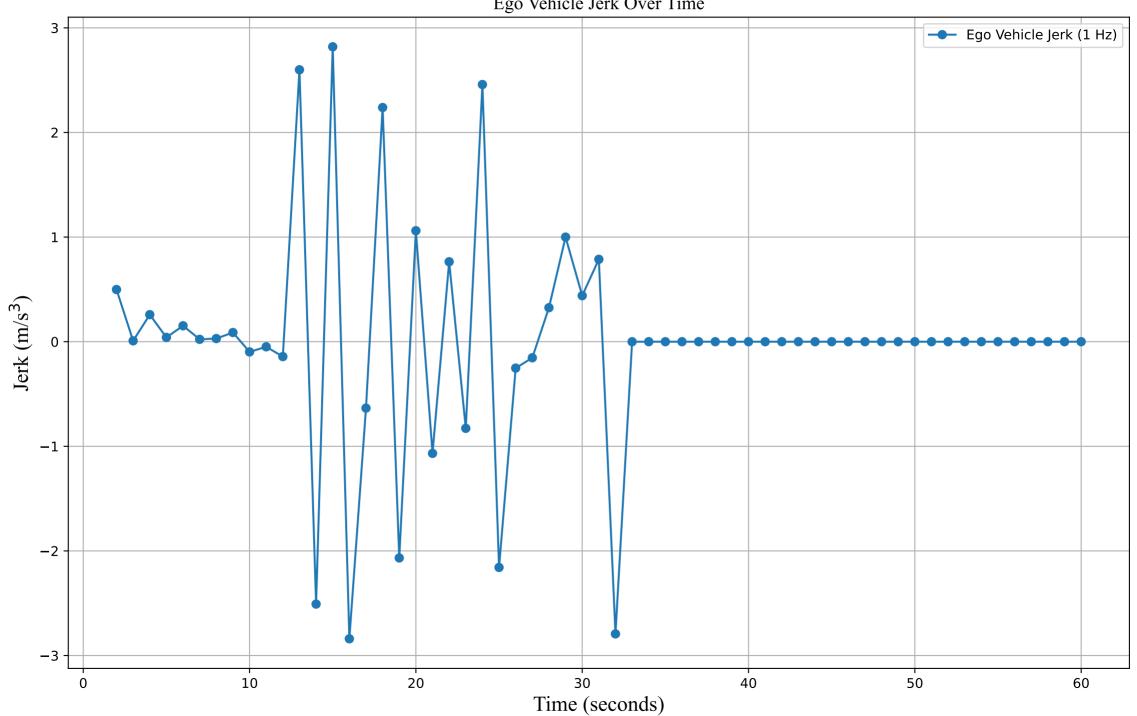


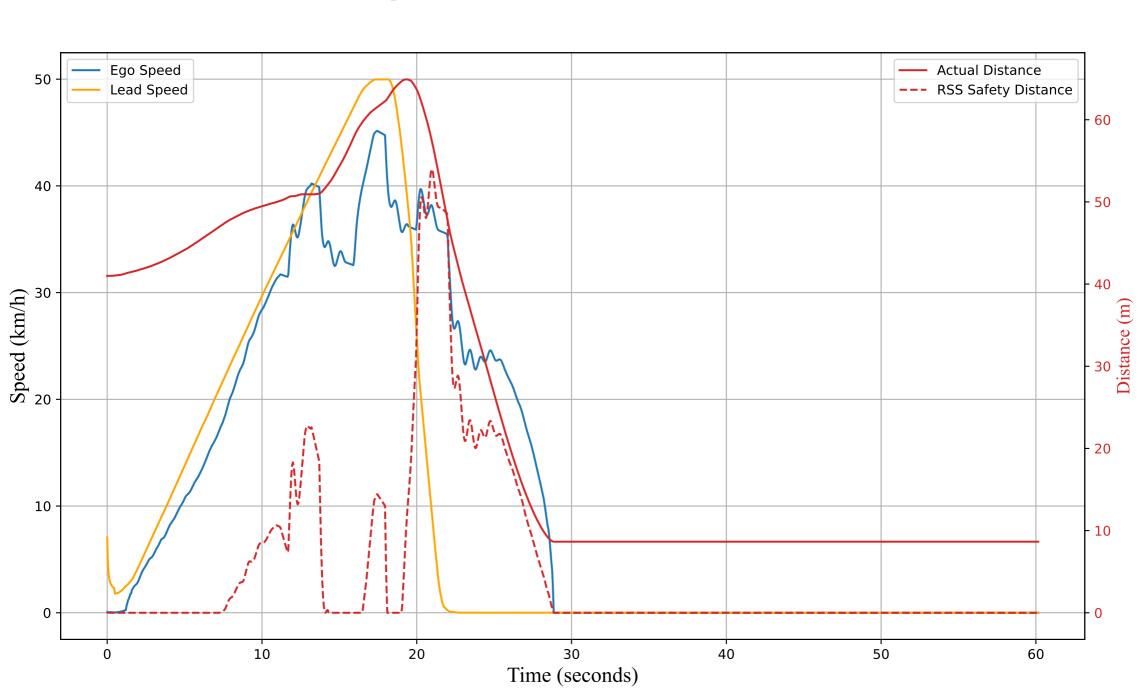
Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=30 m Ego Vehicle Jerk Over Time





Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=35 m Ego Vehicle Jerk Over Time





Ego Vehicle Speed=50 km/h, Lead Vehicle Speed=50 km/h, Initial Distance=40 m Ego Vehicle Jerk Over Time

