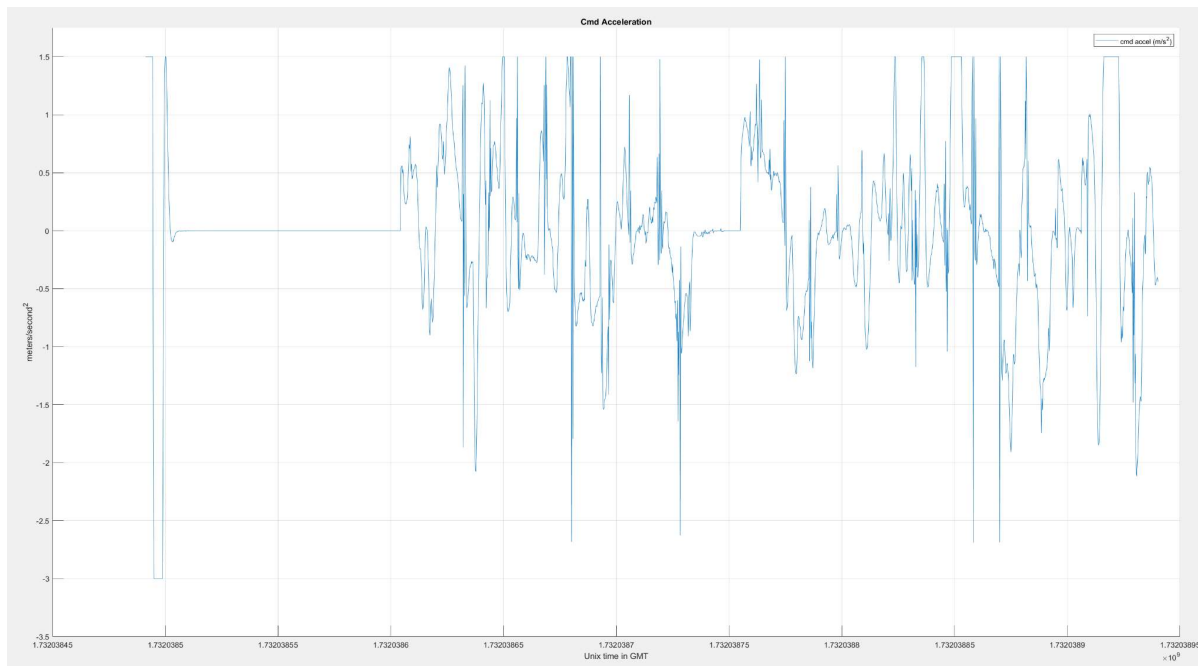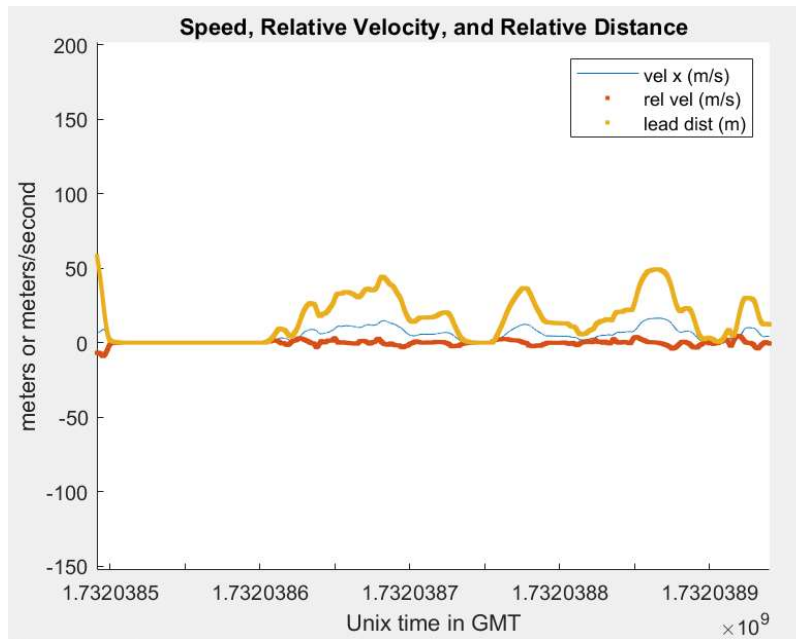**Simulation 1**
Sample data: Data from the CPS VO for cs3891 bagfile provided by profs
Sample start time: 0
Initial lead distance: 65m
Initial ego velocity: 7 m/s
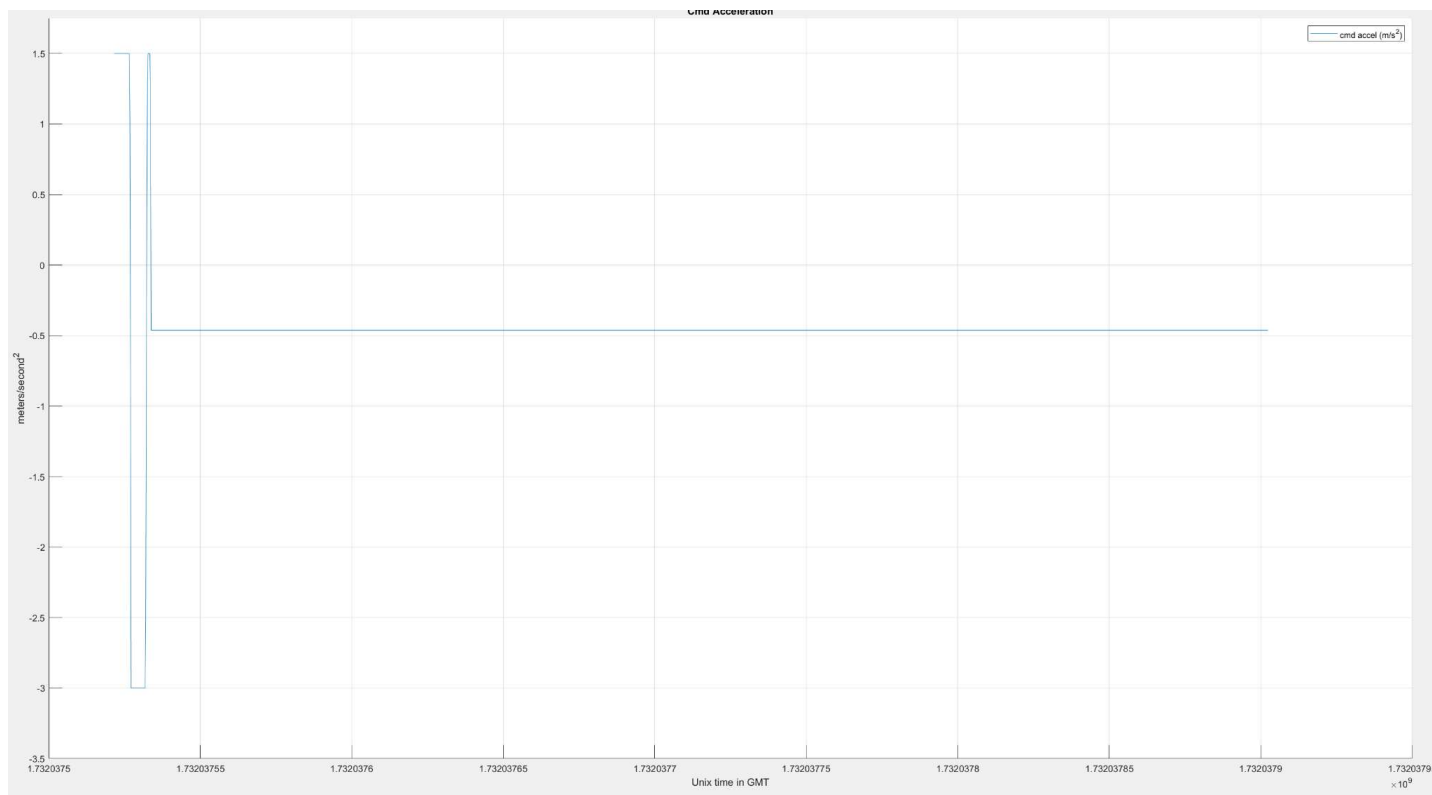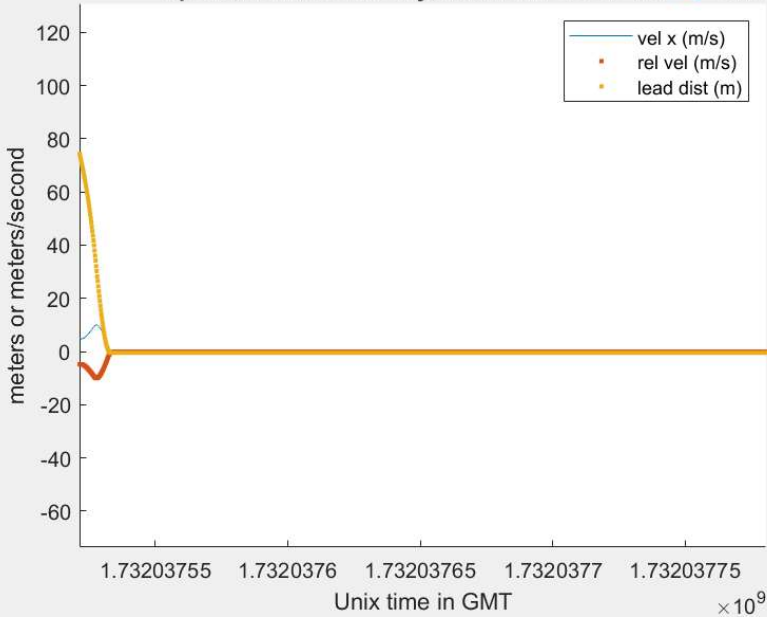
Simulation 2
Sample data: Data from the CPS VO for cs3891 bagfile provided by profs
Sample start time: 2800
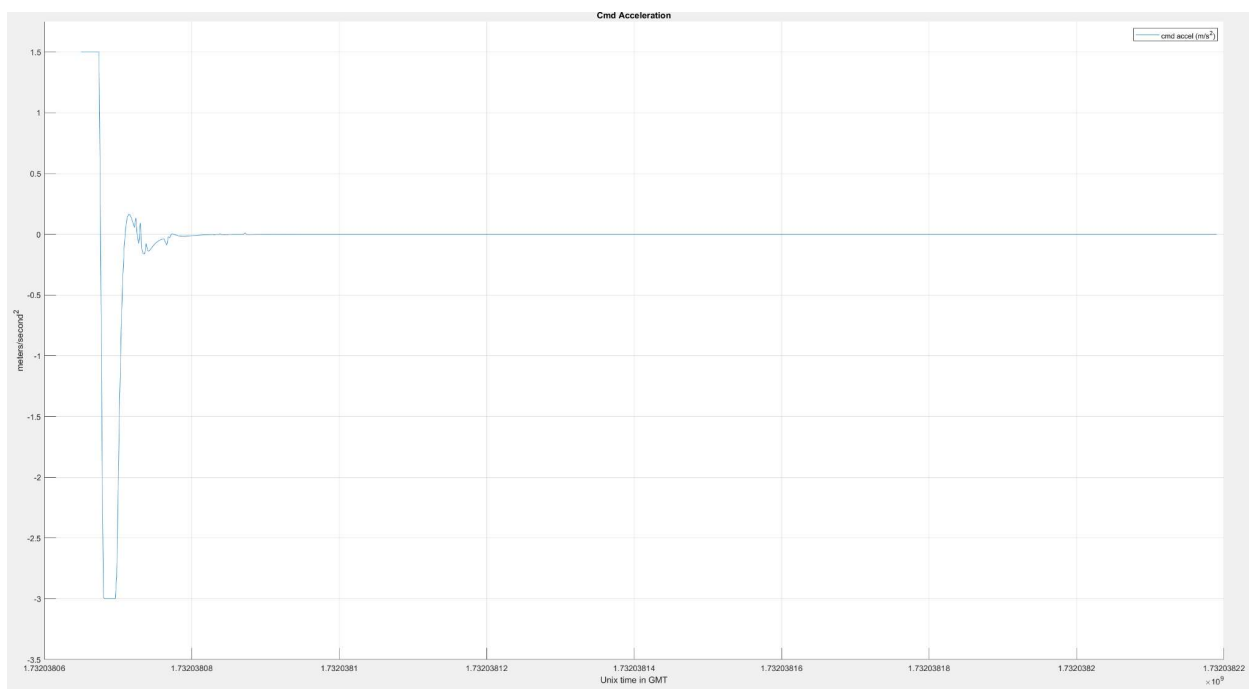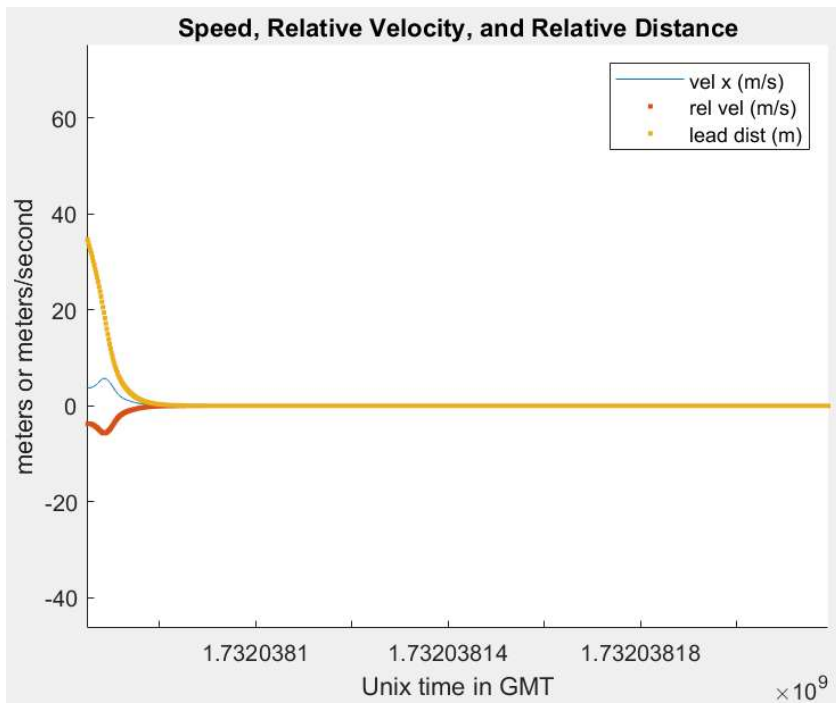Initial lead distance: 80 m
Initial ego velocity: 5 m/s

Simulation 3
Sample data: Data from the CPS VO for cs3891 bagfile provided by profs
Sample start time: 8724
Initial lead distance: 40 m
Initial ego velocity: 4 m/s

data: -2.01948391736657902e-28
---
data: -2.524354896707238e-28
---
data: -1.76704842769506664e-28
---
data: -5.048709793414476e-29
---
data: 1.0097419586828951e-28
---
data: 1.0097419586828951e-28
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data: 1.0097419586828951e-28

data: 1.0097419586828951e-28
---
data: 1.0097419586828951e-28
---
data: -1.0097419586828951e-28
---
data: -1.262177448353619e-28
---
data: 2.524354896707238e-29
---
data: 2.524354896707238e-29
---
data: 2.524354896707238e-29

Simulation 4
Sample data: Data from the CPS VO for cs3891 bag file provided by profs
Sample start time: 100
Initial lead distance: 80 m
Initial ego velocity: 0 m/s

Cmd Acceleration