

## High-Fidelity, Added Mass Sims

Trevor Burgoyne 13 Nov 2022

```
% Paths for data loading
ROOT_DIR = "C:/Users/Trevor/Desktop/AEM 4602W/Controls-Lab/Data/Part 3/";
PREFIX = "part3_t";
DISP_NAME = "Added Mass";
LABEL_NAME = "High Sim";
N_TESTS = 2;
N_RUNS = 1;
masses = [79.3, 80.6] / 1000; % kg
[avg_hss, var_hss, avg_kt, var_kt, kphat, kdhat, kp, kd] = make_graphs(ROOT_DIR, PREFIX, DISP_NAME, LABEL_NAME, N_TESTS, N_RUNS, masses)
```

avg\_hss =

0.0021    0.0038

var\_hss =

0    0

avg\_kt =

0.6585    0.6660

var\_kt =

0    0

kphat =

0.9900    0.8300

kdhat =

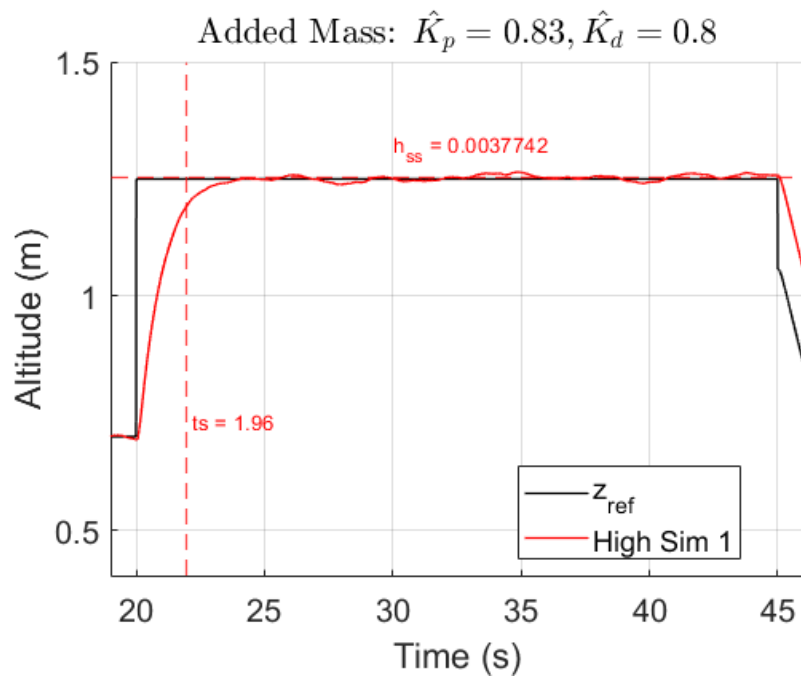
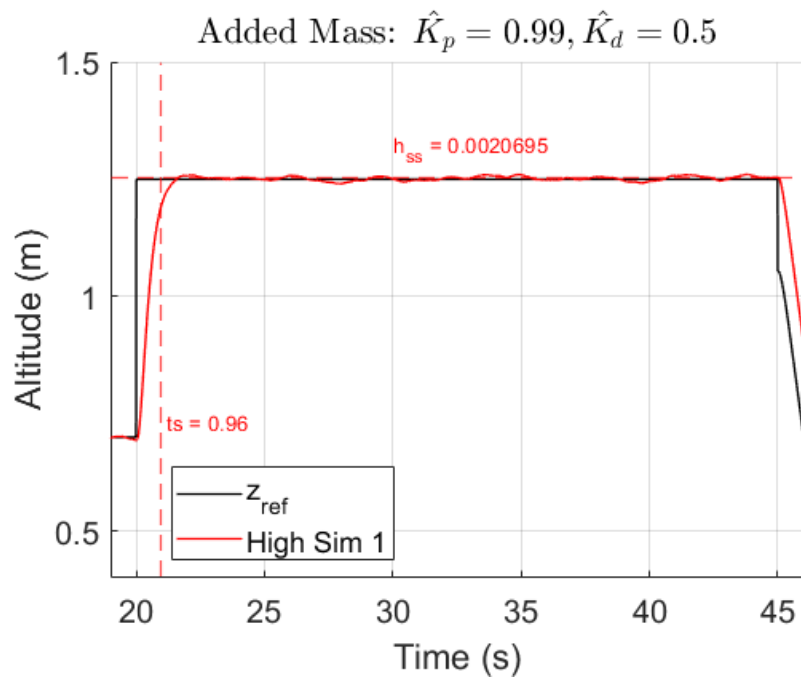
0.5000    0.8000

kp =

0.3758    0.3116

kd =

0.1898    0.3003



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