

## College of Engineering School of Aeronautics and Astronautics

## AAE 36401 Lab Control Systems Lab

## Lab 2 Pre-Lab The Cart on a Track with Pendulum

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September 11<sup>th</sup>, 2020 Purdue University West Lafayette, Indiana Using Matlab and Simulink, the best gain were the following values

K	GAINS
$K_1$	38.9466
$K_2$	-33.0734
$K_3$	14.9005
$K_4$	2.9887

The plot with my gains and the gains K = [0, 0, 0, 0] is the following

