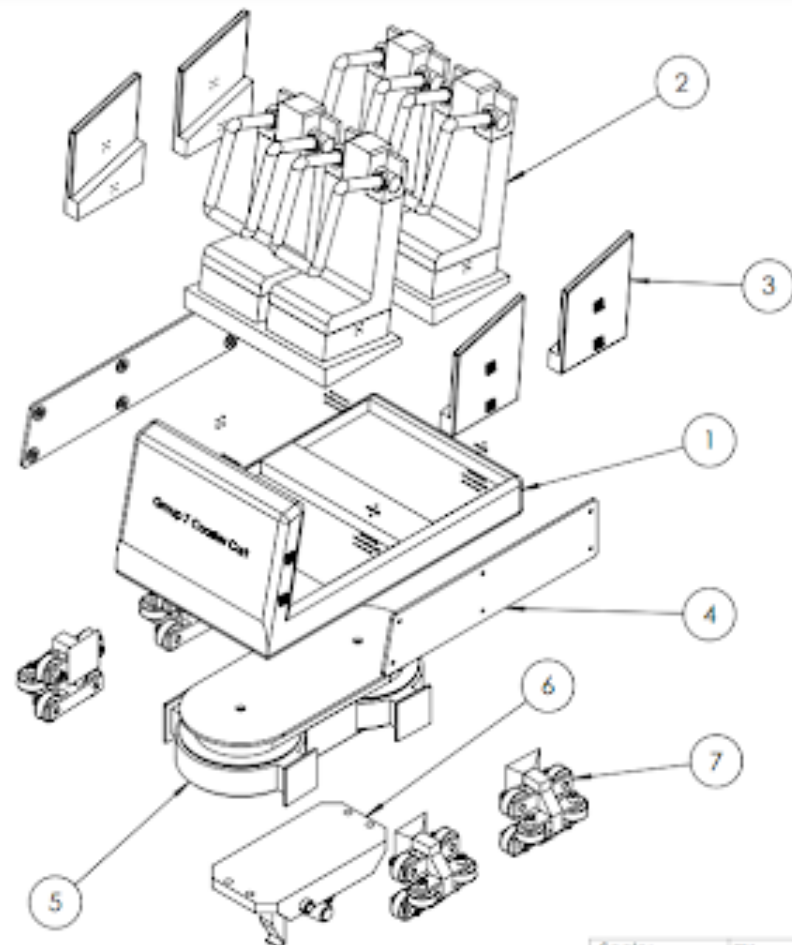


# Rollercoaster Car Design Project

For my ENME272 – Introduction to Computer Aided Design class, I worked on designing a rollercoaster car in SolidWorks. I was responsible for designing the lift subassembly of the car which included a base that mounts onto the undercarriage of the car, a hook to hook onto the track's chains, and an anti-rollback system to prevent the car from falling back in case of an accident.



Note: Mostly shows subassemblies exploded only, as further detail would be impossible to observe.

Simple parts of the Coaster Cart Body assembly are separated to better demonstrate detail.

ITEM NO.	PART NUMBER	QTY.
1	Coaster Cart Body	1
2	Seat Restraint Subassembly	4
3	Seat Cover	4
4	Side Cover	2
5	Wheel Connector Subassembly	1
6	Lift Subassembly	1
7	Wheel Bogie System Subassembly	4

Scale:

1:35

Title:

Main Assembly

ENME 272

FALL 2021

Units

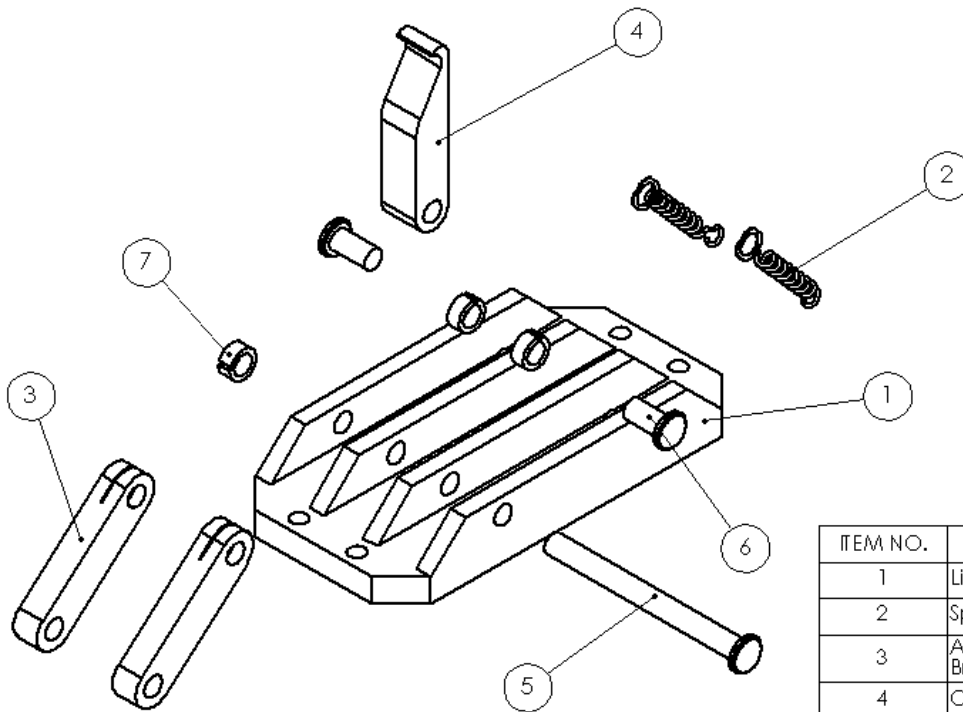
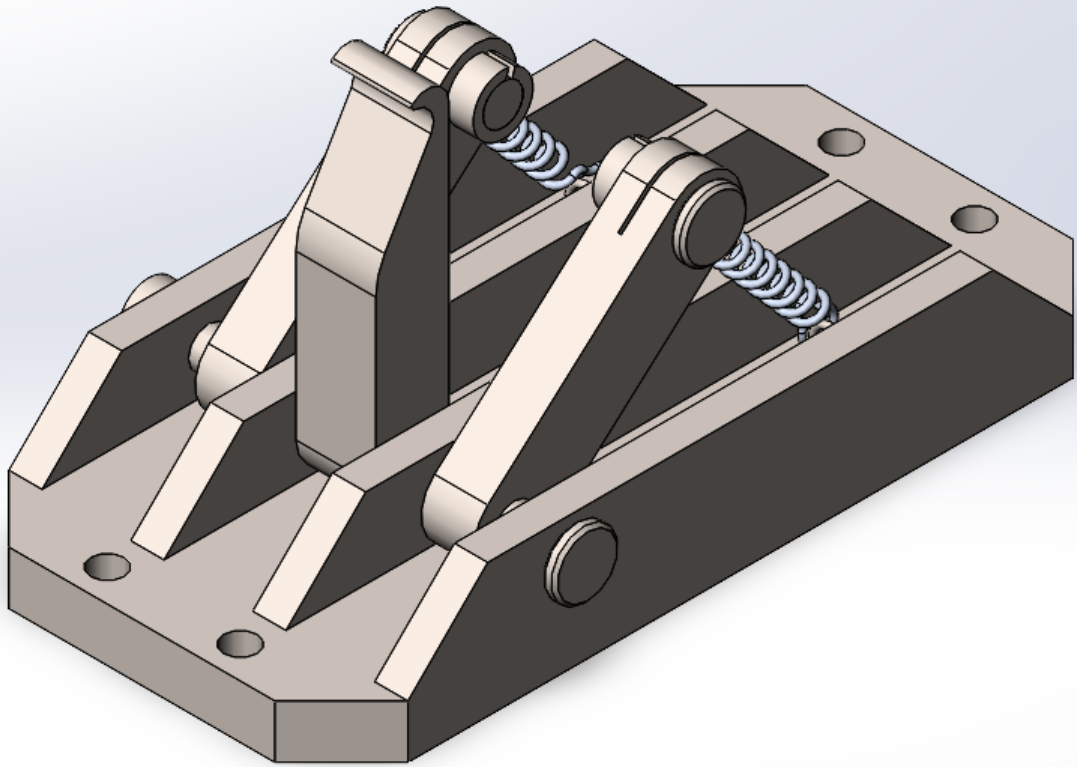
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Drawn by:

Group 7

Date:

12/6/2021



ITEM NO.	PART NUMBER	QTY.
1	Lift Mounting Plate	1
2	Spring	2
3	Anti-Rollback Device Bracket	2
4	Chain Hook	1
5	Pin	1
6	Small Pin	2
7	Shaft Collar	3

Scale:

1:12

Units  
mmgs

Title:

Lift Subassembly

Drawn by:

Pranav Srinivasan

ENME 272  
FALL 2021

Date:

12/6/2021