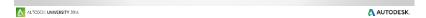




Key learning objectives

At the end of this class, you will be able to:

- Discover how to apply tools traditionally used for VFX to Mechanical Design
- See how MassFX can be used as a quick solution for working out mechanical designs
- See how various features in 3ds Max can be used to create quicker previsualizations
- Understand how rigging tools in 3ds Max can be used to help design working mechanical assemblies





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The Creative Challenge

To create a viral video that highlights the key points of ruggedness of the new Panasonic Toughpad in the context of a whimsical testing grounds inspired by Rube Goldberg machines.

The Logistical/Technical Challenge

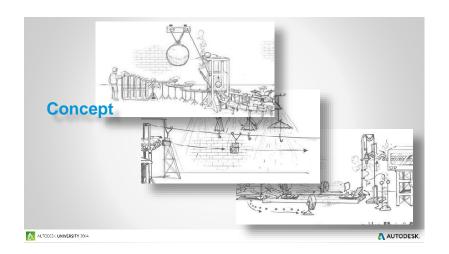
5 weeks schedule from project award to shooting No location established at time of award Concepts for all torture tests not yet approved by client Not technically a "Rube Goldberg Machine"actually harder

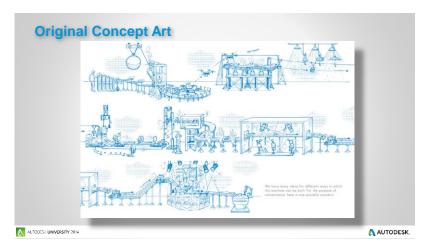


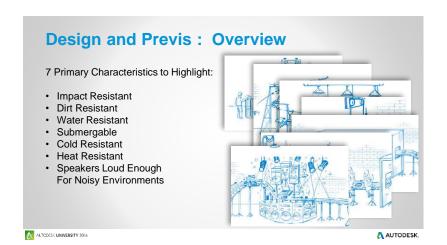
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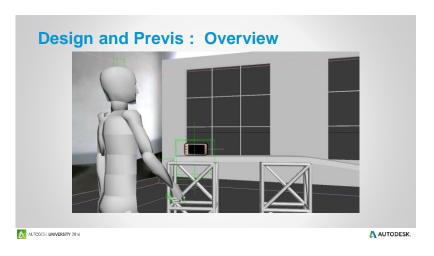


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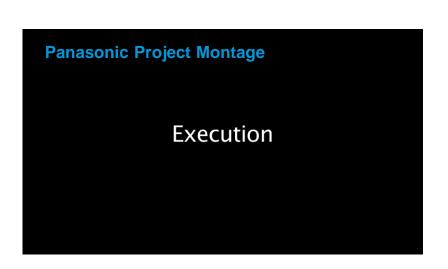


Design and Previs: Overview

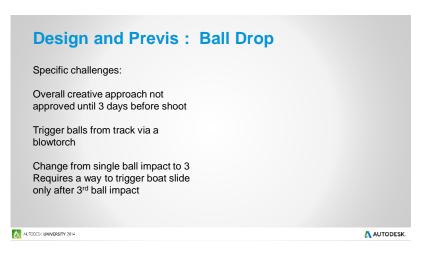
Top 10 Biggest Challenges:

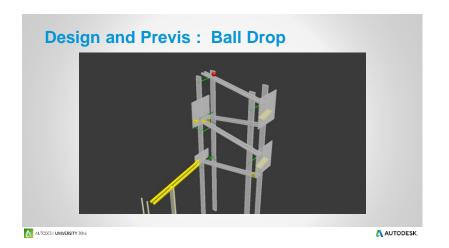
10 - Keeping total running time in mind
9 - Mindful of Camera Flow/Operators
8 - Moving a Single Object, Not Energy, from point A to Z
7 - Every component is dependent on component before and after
6 - Need to avoid repetitive mechanisms wherever possible
5 - Many Triggers and Releases needed to be designed
4 - Budget not so big that we can just throw money at it.
3 - Murphy's Law In Full Effect
2 - The randomness of the universe
1 - Time

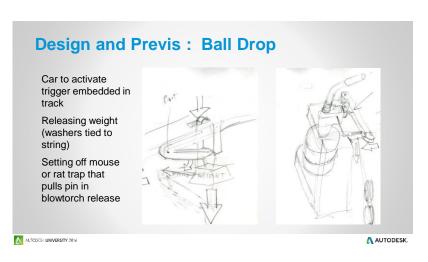
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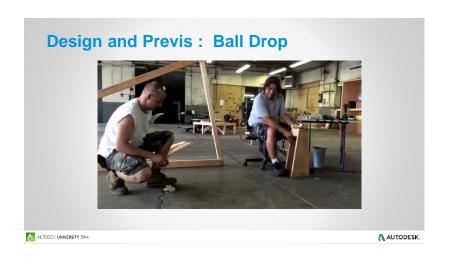


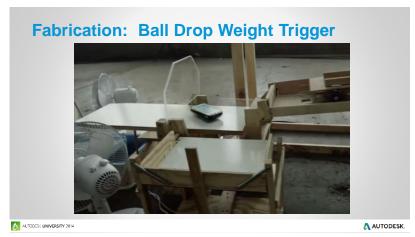


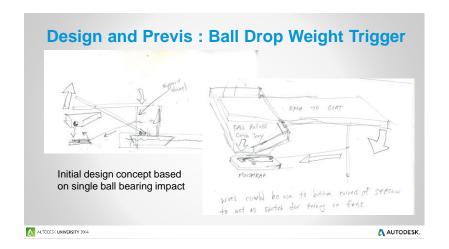


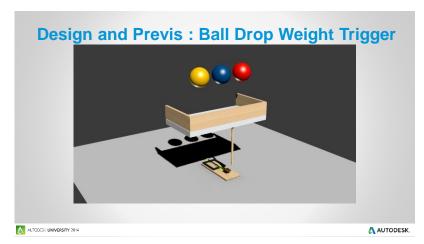




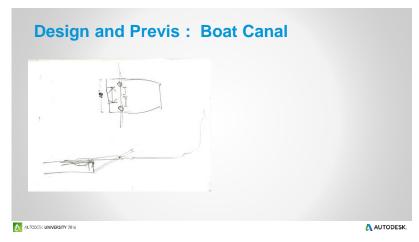


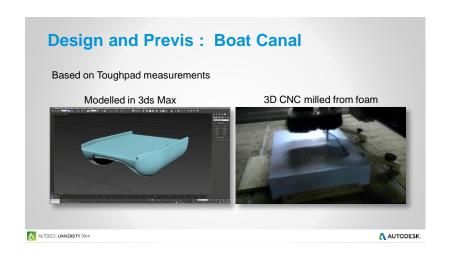


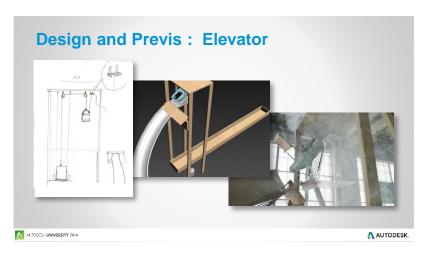




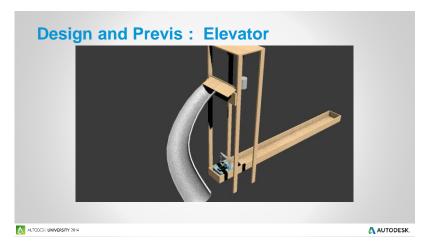


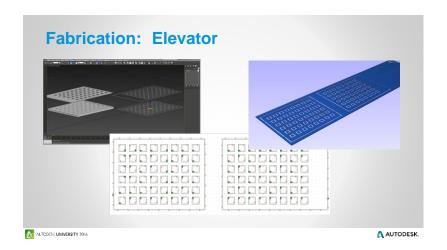




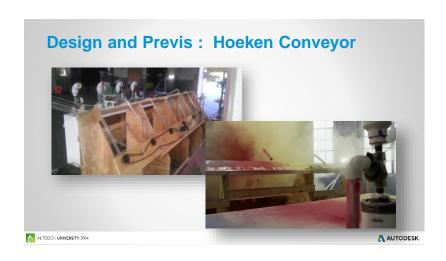


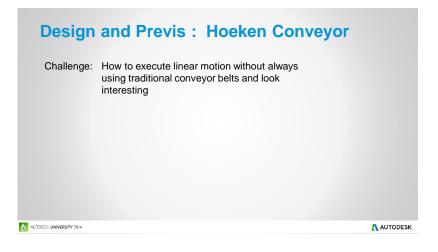


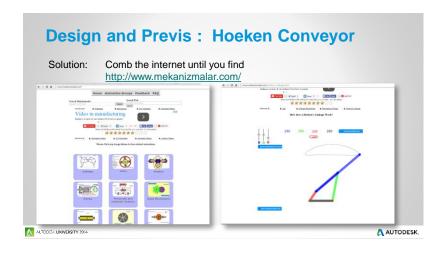


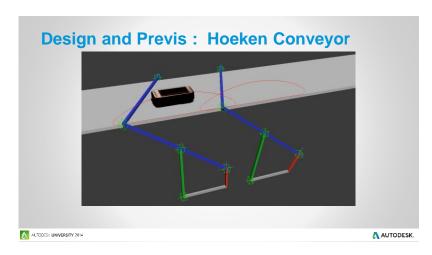


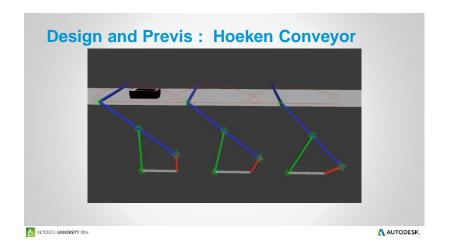


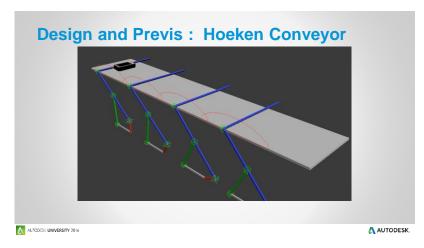


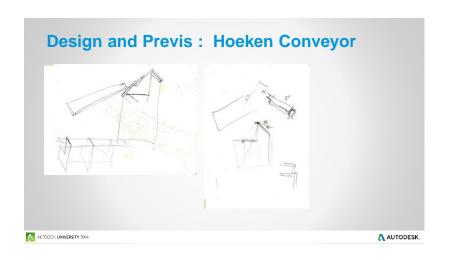


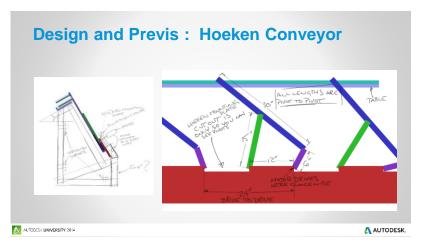


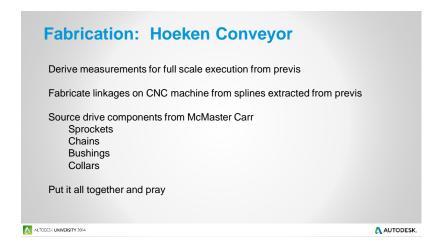






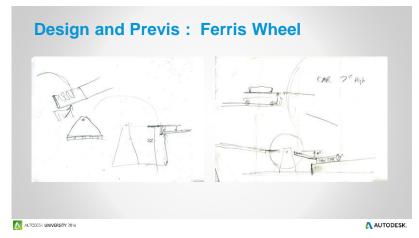


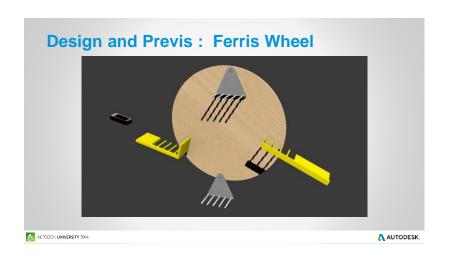






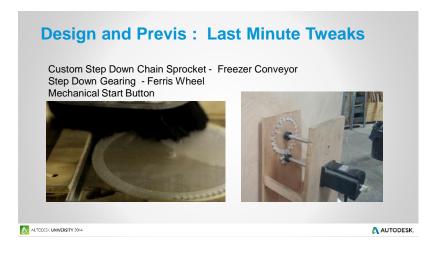


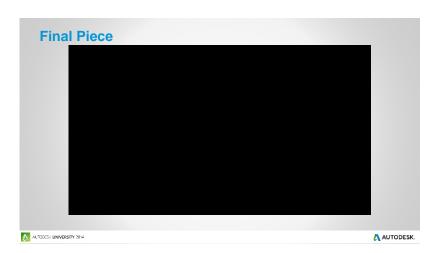






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Thank You and Credits

Worlds Away Productions

Kai Lee – Production Designer Kim Lee – Art Director/Previs Artist Ales Brodsky – Lead Fabricator Eric Fisher - Fabricator Victor Barroso - Fabricator Zack Freedman – Air Cannons/Electronics Steve Cohen – Drone Specialist Damaris Cozza – Props Kathryn Vega – Props Ruddy Heredia – Art Assistant Sean Hechler – Art Assistant Linda Albert - Art Assistant Calvin Wong – Art Assistant

A.7005S UNIVERSITY 2014

Thank You and Credits Shilo Anthony Furlong – Director Cary Flaum – Executive Producer/Head of Production Robert Berman – Head of Production - East Tom Nifenecker – Line Producer Kevin Kim – Behind the Scenes Photo/Video

AUTODESK UNIVERSITY 2014

Thank You and Credits SIGMA Diane deCastro – V.P., Sr. Account Director Kelly Mastrojohn – Sr. Account Executive Genevieve Gigi – Agency Producer Tim Stapleton – Creative Director Nik Nikolov – Creative Director Skye Leith – Video Production Director Jose Aguirre – Video Editor Matt Reinheimer – Audio Engineer PANASONIC Marca Armstrong – Vice President, Marketing Jayme Cunningham – Marketing Manager







