




BP Chair - Final Project\_10  
7/25/2016, 8:55:26 PM EST - complete

CANCEL ALL GENERATIONS

1 OF 1 DESIGN SOLUTIONS

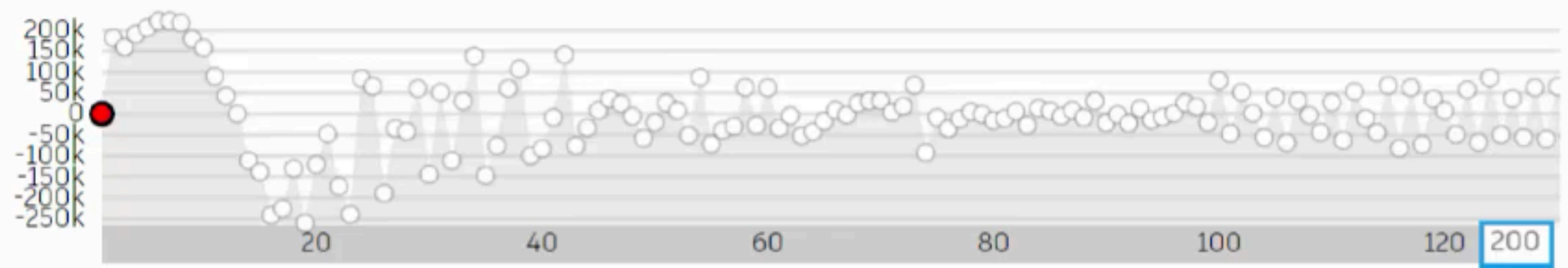
Time Elapsed: 08:50:33



200 OF 200 ITERATIONS

DESIGN DETAILS FOR SOLUTION 1

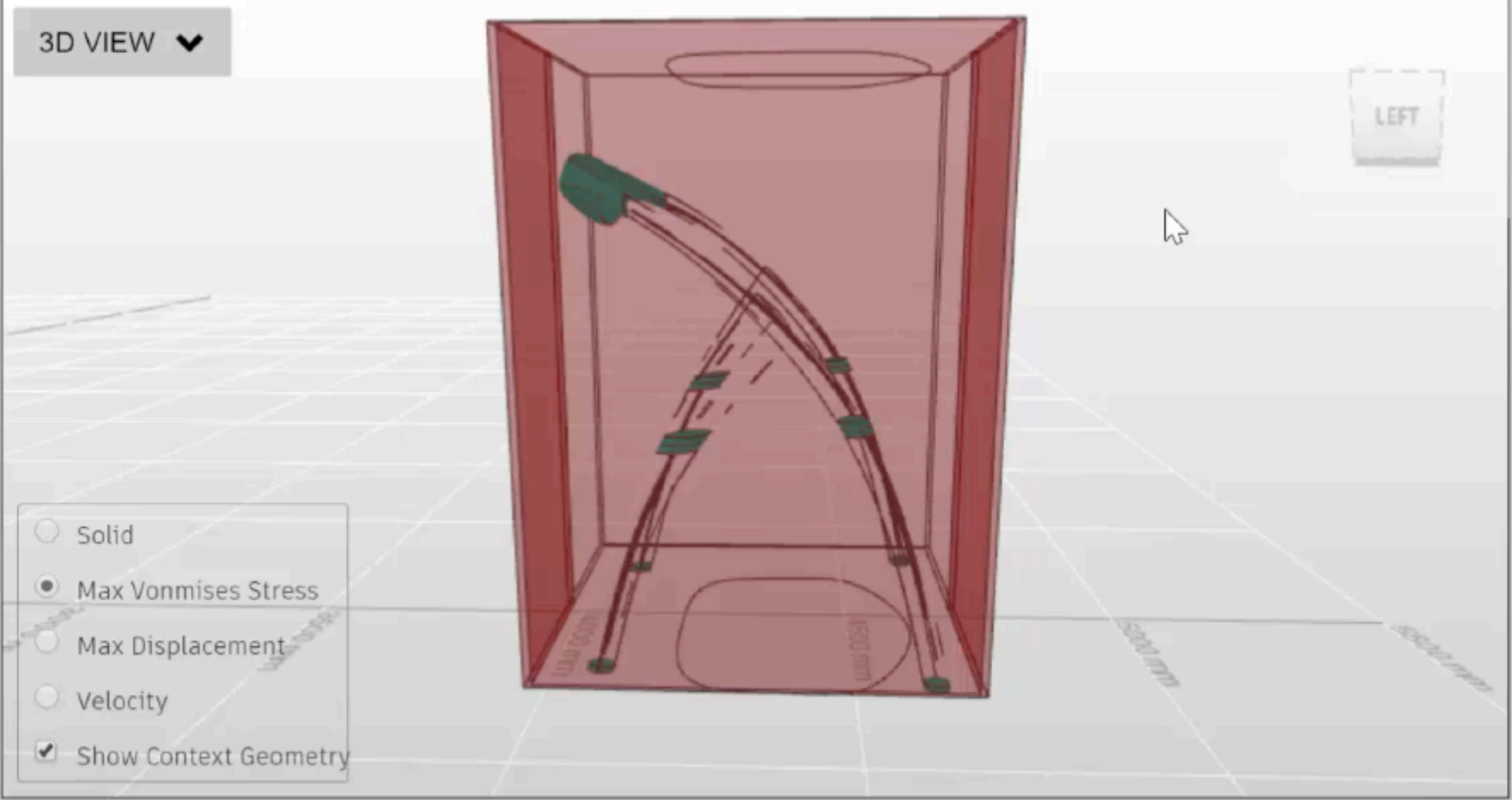
HIDE GRAPH



DESIGN PROPERTIES

Volume Change (mm <sup>3</sup> )	2883.47
Iteration	200.000
Volume Change Percent (%)	0.0512895
Initial Volume (mm <sup>3</sup> )	5.88495e+6
Material	Nylon
Max Displacement Norm (mm per ...)	0.370904

3D VIEW



☐ Solid

☒ Max Vonmises Stress

☐ Max Displacement

☐ Velocity

☒ Show Context Geometry

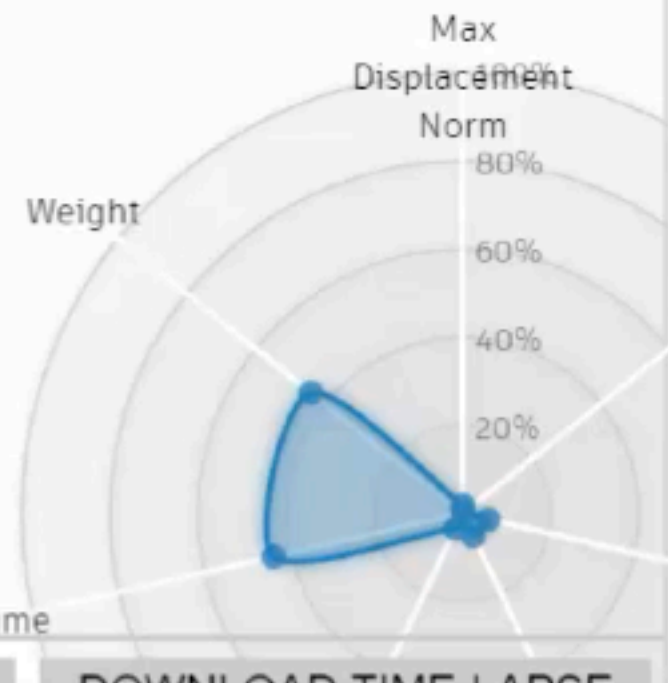
DOWNLOAD ITERATION

DEMOTE ITERATION

VIEW IN DEFINE

PLAY ANIMATION

DOWNLOAD TIME-LAPSE








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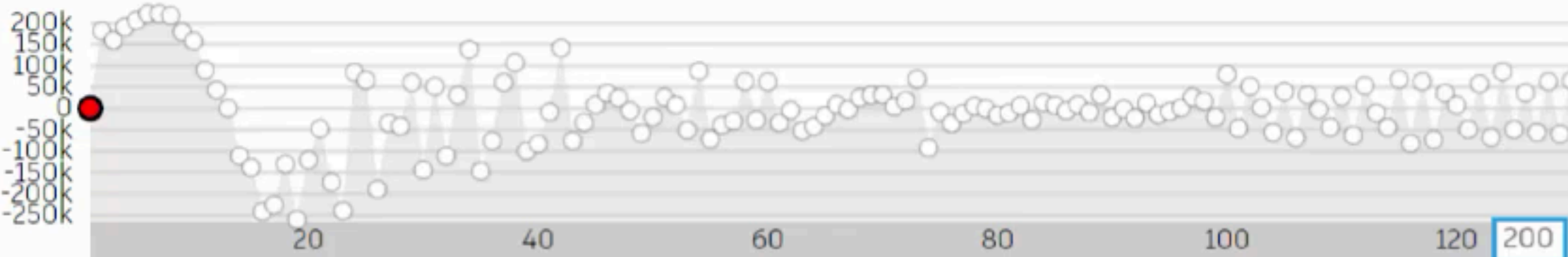
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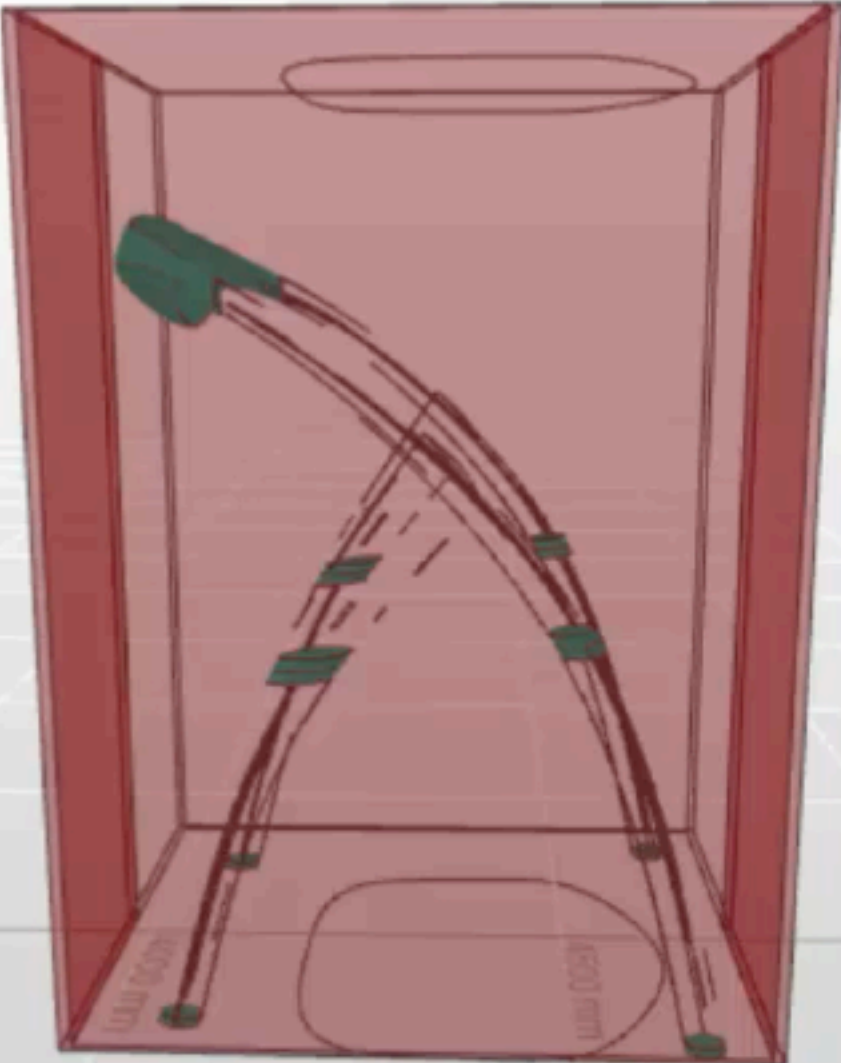
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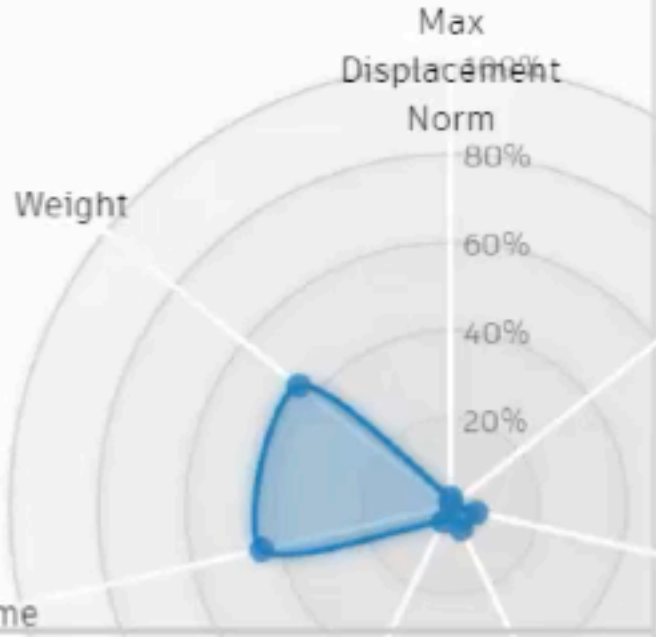
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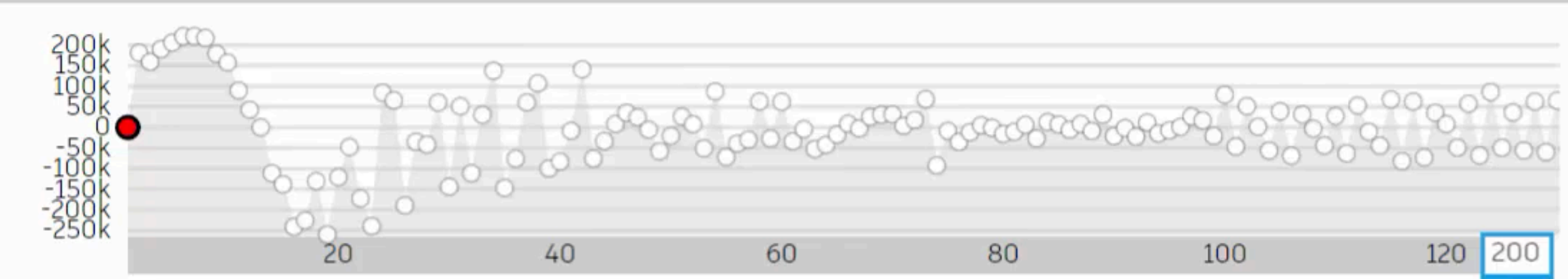
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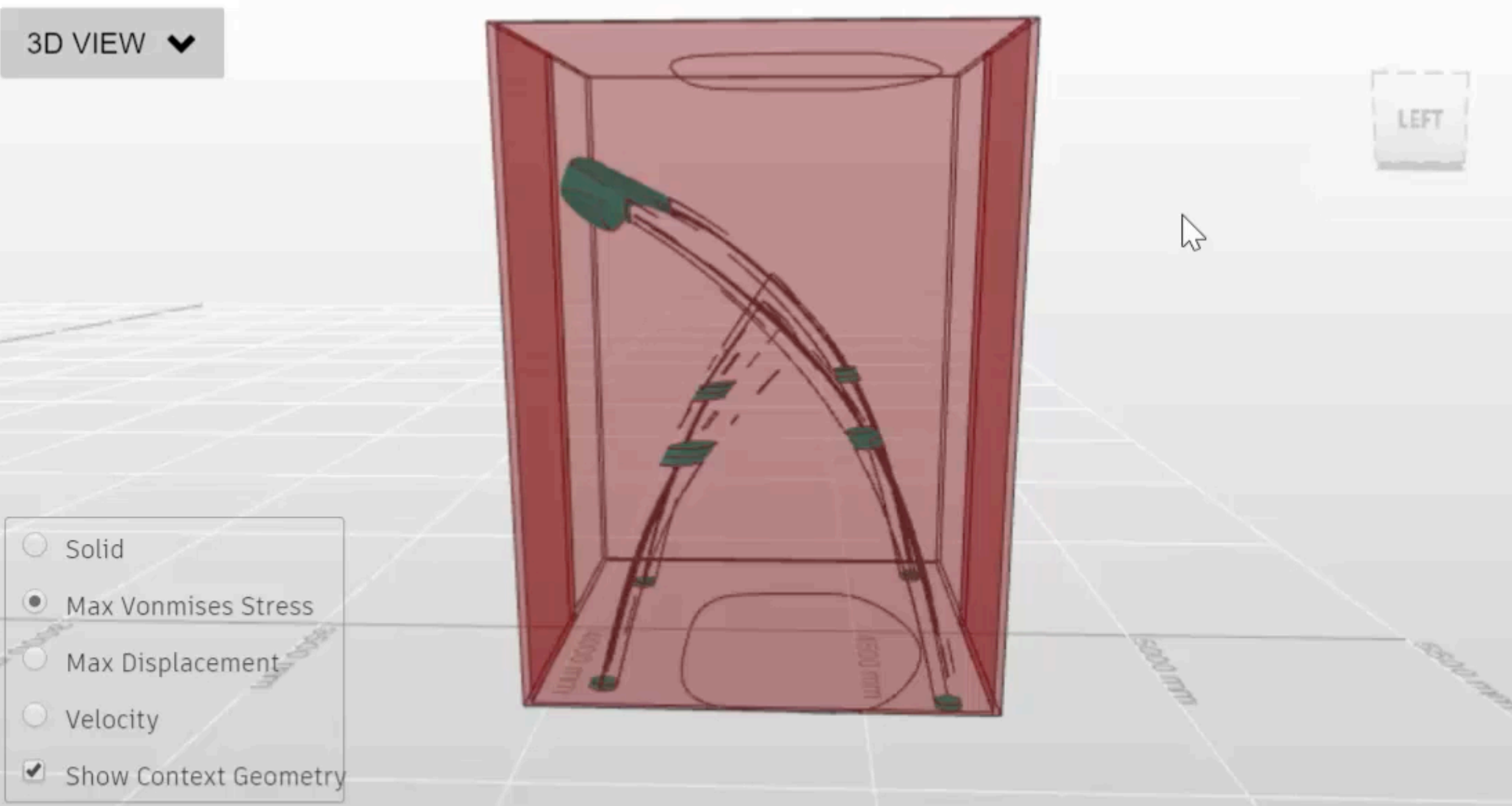
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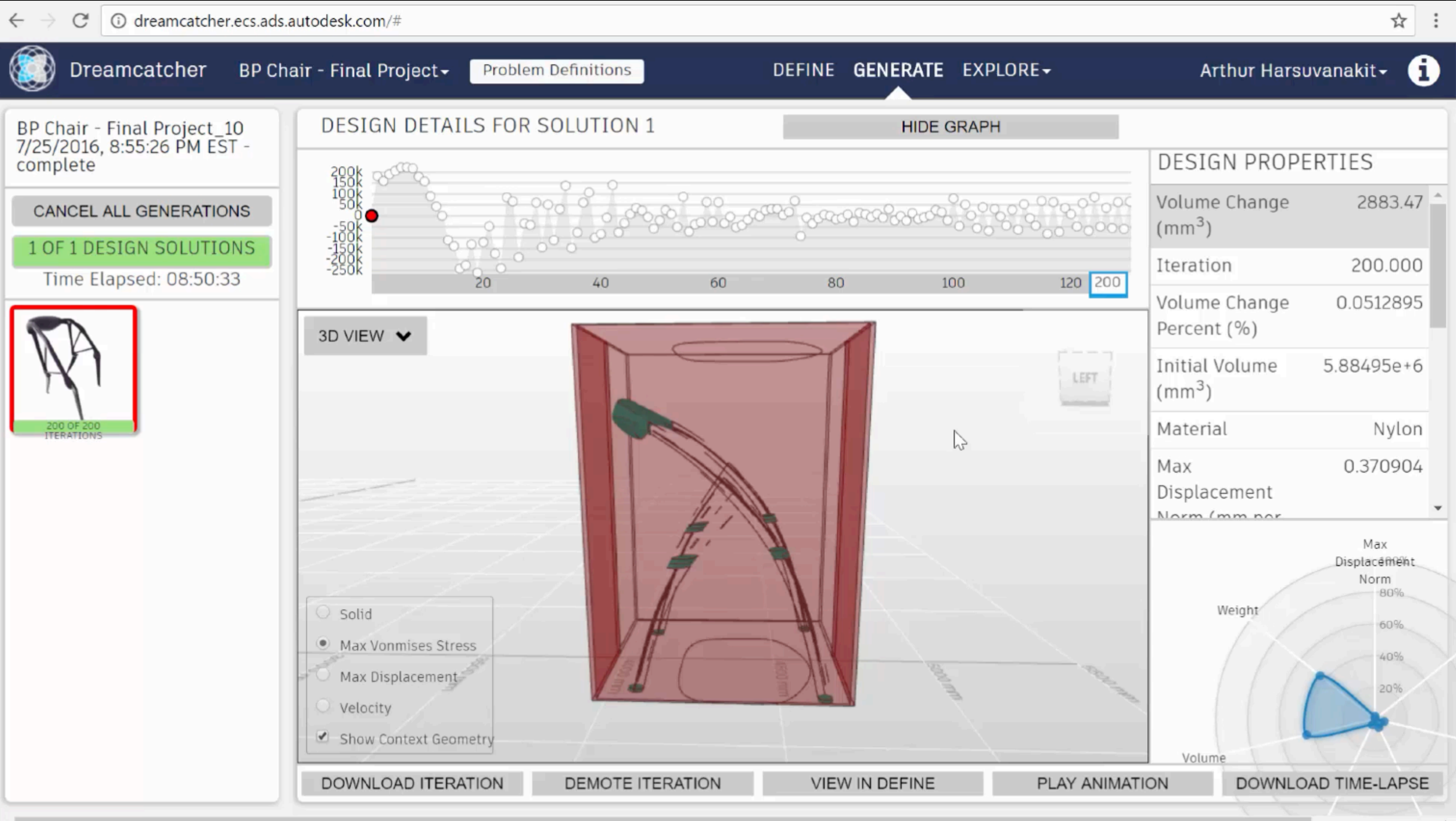
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EARLY UX & TECHNICAL VALIDATION - the idea is great, but how the hell do I use it ...?







SLIME MOLD

The algorithm for the partition frame was based on the growth patterns of slime mold, a single-celled organism that connects multiple points with uncanny efficiency.



10,000 DESIGN OPTIONS GENERATED FOR THE BIONIC PARTITION



MAMMAL BONES

The algorithm for the structure within the partition frame was based on the grid structures of mammal bone growth, which are dense at points of stress but lighter everywhere else.



45% LIGHTER THAN TRADITIONAL AIRBUS PARTITION DESIGN

