

# Navisworks Clashes

## in Revit Using Dynamo

# Thanks for the idea!



Jose Miguel Cantalejo Vegazo



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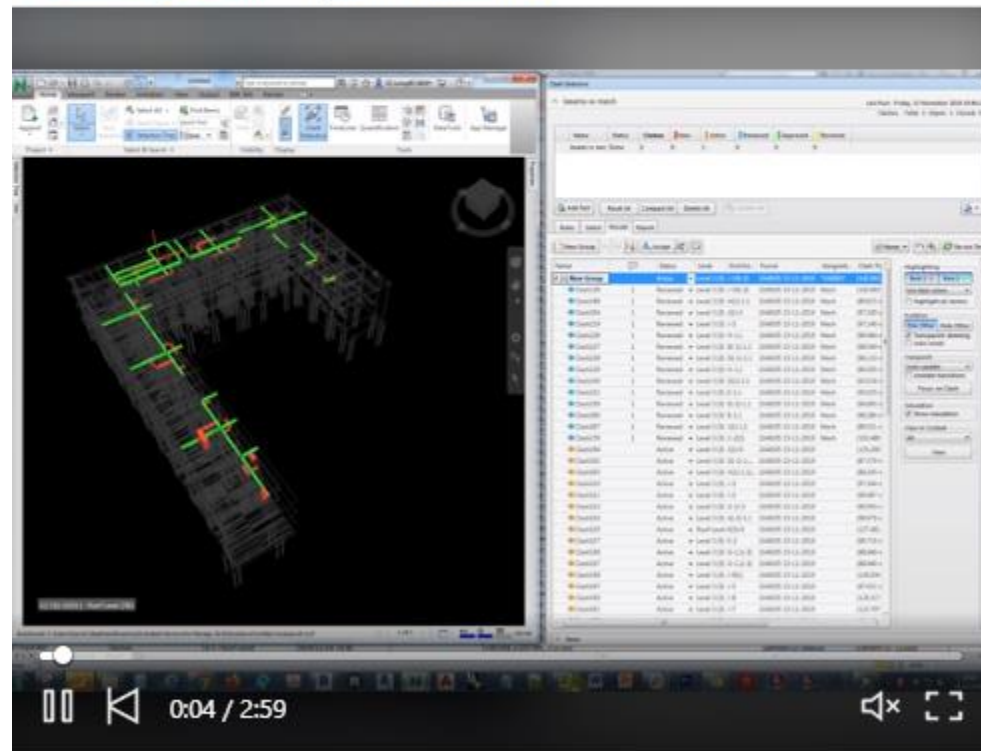
**Gavin Crump**  
BIM Manager at Crone Architects  
3d



Identifying clash locations in Revit using Dynamo and Navisworks clash reports. Skip between 0:30 to 2:00 to avoid watching the script processing (Dynamo Player is particularly slow with this one vs. Dynamo itself, strange!).

Look forward to sharing the workflow to my Youtube channel at a later date for others to replicate, thanks for the inspiration [Jose Miguel Cantalejo Vegazo](#)!

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# Workflow

Navisworks clash test(s)

XML Report > Excel

Dynamo read Excel

Place markers at points



# Why?

Revit vs. Navis users  
Only Manage has clashes  
Quicker than Switchbacks  
Track closeouts



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Autodesk Navisworks Manage 2018 Clash detection.nwf

Home Viewpoint Review Animation View Output BIM 360 Render

Append Refresh Select Save Selection Select All Selection Tree Find Items Quick Find Sets

Project Select & Search Visibility Display Tools

Clash Detective

beams vs mech Last Run: Frid

Name	Status	Clashes	New	Active	Reviewed	Approved
beams vs mech	Done	1	0	1	0	0

Add Test Reset All Compact All Delete All Update All

Rules Select Results Report

New Group Assign

Name	Status	Level	Grid Int...	Found
New Group	Active	Level 3 (3)	J-10(-2)	10:40:05 1
Clash139	1 Reviewed	Level 3 (3)	J-10(-2)	10:40:05 1
Clash188	1 Reviewed	Level 3 (3)	H(1)-1.1	10:40:05 1
Clash204	1 Reviewed	Level 3 (3)	J(1)-3	10:40:05 1
Clash219	1 Reviewed	Level 3 (3)	J-3	10:40:05 1
Clash226	1 Reviewed	Level 3 (3)	H-1.1	10:40:05 1
Clash227	1 Reviewed	Level 3 (3)	B(-1)-1.1	10:40:05 1
Clash228	1 Reviewed	Level 3 (3)	D(-1)-1.1	10:40:05 1
Clash229	1 Reviewed	Level 3 (3)	H-1.1	10:40:05 1
Clash230	1 Reviewed	Level 3 (3)	G(1)-1.1	10:40:05 1
Clash231	1 Reviewed	Level 3 (3)	E-1.1	10:40:05 1
Clash259	1 Reviewed	Level 3 (3)	E(-2)-1.1	10:40:05 1
Clash260	1 Reviewed	Level 3 (3)	B-1.1	10:40:05 1
Clash267	1 Reviewed	Level 3 (3)	J(1)-1.1	10:40:05 1
Clash276	1 Reviewed	Level 3 (3)	C-1.1	10:40:05 1


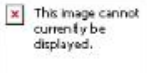

Items

K(-19)-10(33) : Roof Level (38)

Ready 1 of 1 665



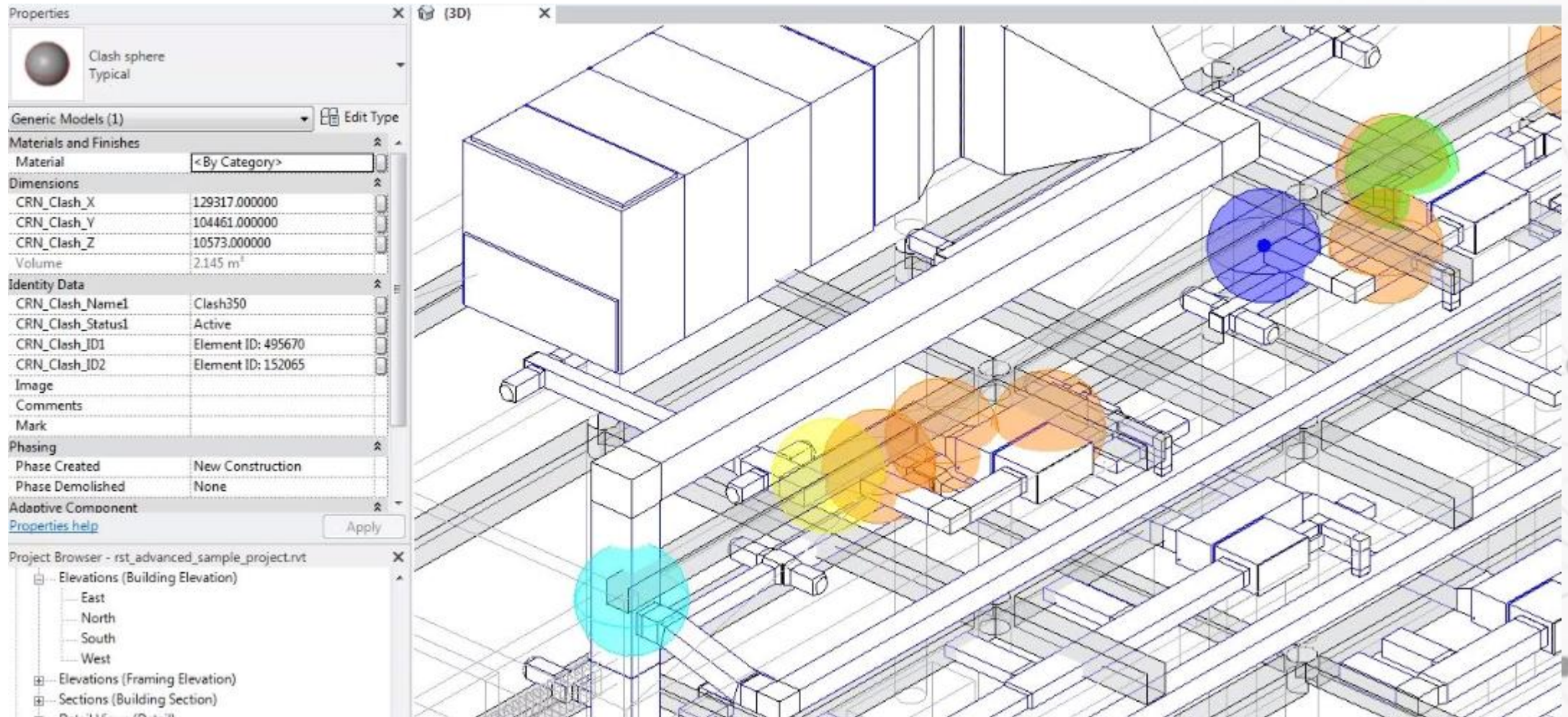
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	AUTODESK®		sh Report											
2	NAVISWORKS®													
3														
4	beams vs mech													
5														
6														
7								Item 1	Item 2					
8	Image		Clash Name	Status	Grid Location	Date Found	Assigned To	Clash Point	Item ID	Item ID	Comments			
9			Clash139	Reviewed	J-10 : Level 3	2019/11/14 23:40	Mech	x:142.063, y:100.912, z:10.600	Element ID : 478587	Element ID : 152064	Assigned to Mech This is reviewed, mech to fix			
10			Clash188	Reviewed	H-1.1 : Level 3	2019/11/14 23:40	Mech	x:89.915, y:119.899, z:10.502	Element ID : 493131	Element ID : 152091	Assigned to Mech This is reviewed, mech to fix			
			Clash204	Reviewed	J-3 : Level 3	2019/11/14 23:40	Mech	x:97.320, y:114.174, z:10.671	Element ID : 495882	Element ID : 152031	Assigned to Mech This is reviewed, mech to fix			



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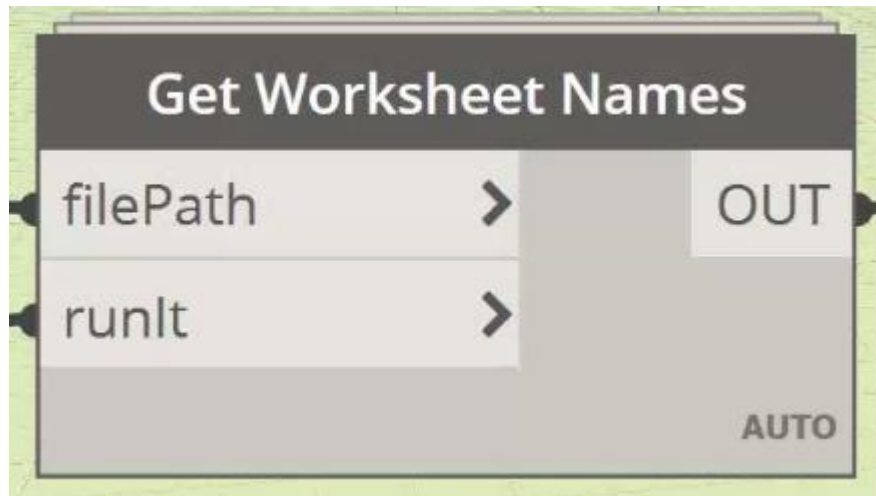


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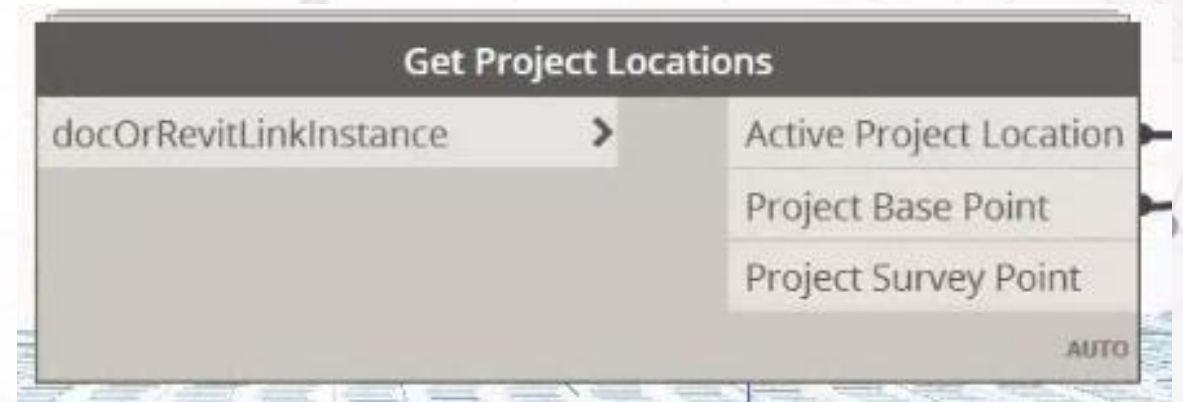


# Custom Nodes

## Bumblebee



## Genius Loci



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# Versioning

## 2.0.3 Ideally



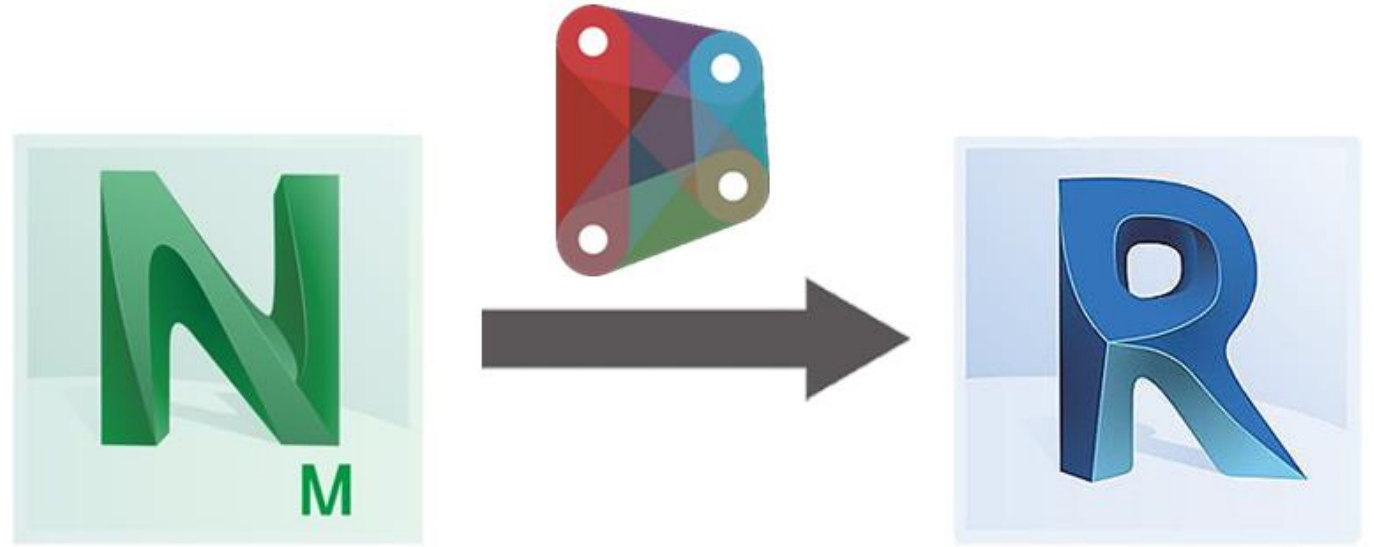
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A background network diagram consisting of numerous grey dots (nodes) connected by thin grey lines (edges), forming a complex web-like structure that fills the right side of the slide.

# Without further ado...



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