Cascading Failure

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Cascading failures is a project about how different systems affect each other. How a single error can become systemic and how a system can correct an error within itself, are fundamental topics of this project.

A cascading failure is a failure in a system of interconnected parts in which the failure of a part can trigger the failure of successive parts. Such a failure may happen in many types of systems, including power transmission, computer networking, finance, human bodily systems, and bridges. Cascading failures usually begin when one part of the system fails. When this happens, nearby nodes must then take up the slack for the failed component. This in turn overloads these nodes, causing them to fail as well, prompting additional nodes to fail one after another in a vicious circle
en.wikipedia.org/wiki/Cascading_failure

The works within this frame are based on spatial change. Shape-changing structures are built to randomly alter a space. Geometrical objects are moved from A to B through different paths.

The main installation work consists of a series of cubes hinged together at different points which is risen and lowered by a crane. Due to the way the cubes are connected the structure never settles in the same position. The size of the installation effectively reduce and transform the space, forcing the observer to move around the exhibition as if navigating through drift ice.

Variable sizes, configurations and velocities are keys in the installation. Even though an electric system control the movements, the amount of variations all the variables put together produces generate an almost infinite array of positions for the structure. The size of the work can be adjust to the size of the room as they are build in modules.
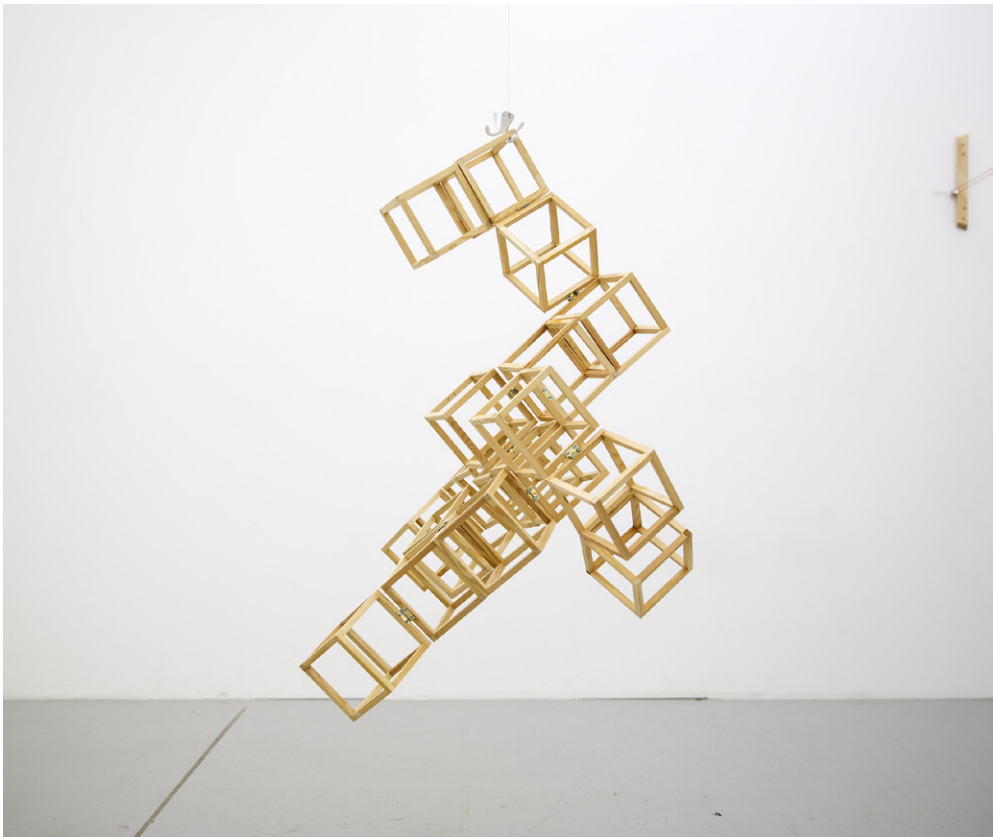
Cascading Failure
2014

Wood, hinges and electric motor
Size : 1.5 cubic meters

Cascading Failure
2014

Wood, hinges and electric motor
Size : 1.5 cubic meters

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2014

Wood, hinges and electric motor
Size : 1.5 cubic meters

Cascading Failure
2016

Aluminium profiles, heavy duty hinges, hacked
winch and steal cables
Size : 30 cubic meters

Cascading Failure
2016

Aluminium profiles, heavy duty hinges, hacked
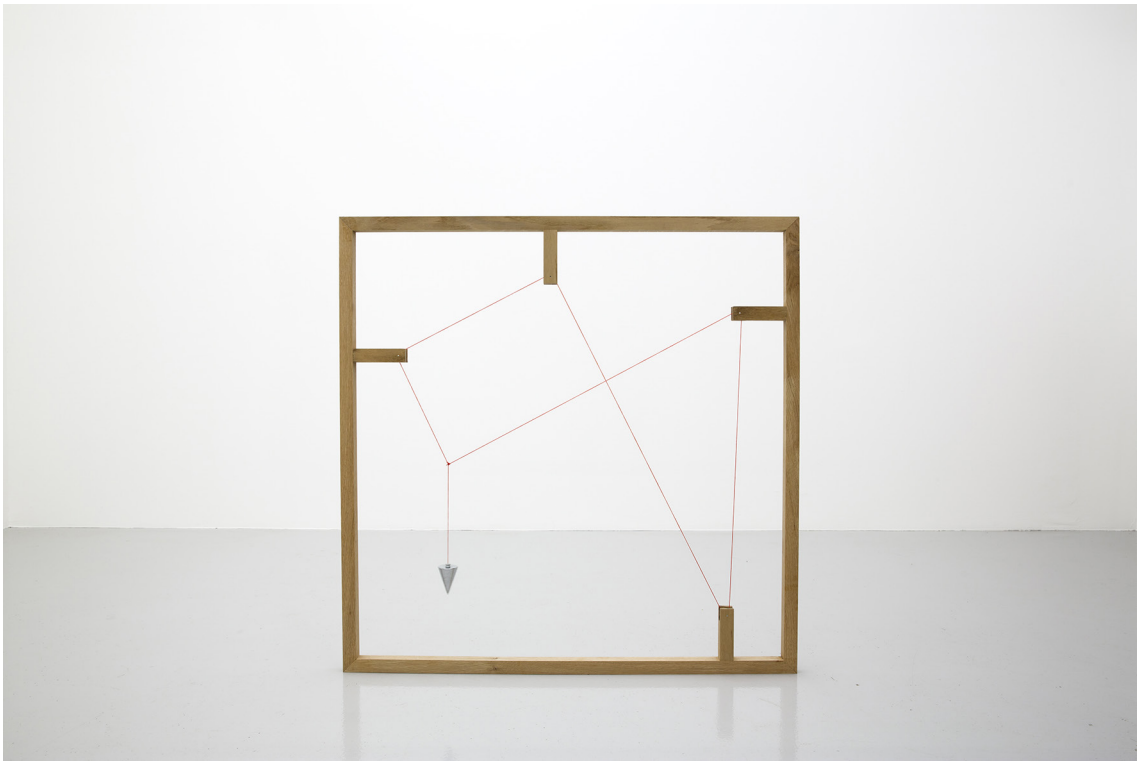winch and steal cables
Size : 30 cubic meters

Cascading Failure
2016

Aluminium profiles, heavy duty hinges, hacked
winch and steal cables
Size : 30 cubic meters

Untitled 1,2
2014

Oak, Thread and Plumbob
Size : 100 x 100 x 3cm

Untitled 3,4
2014

Oak, Thread and Plumbob
Size : 100 x 100 x 3cm