Children's Ferris Wheel

This Ferris Wheel is a reproduction of the typical children's attraction made with a Stemfie parts.

It allows to be a tool of assembly ability for groups, it is made of 6 identical **cabins**, 2 **support wheels** and a **base**. It is useful to be able to participate up to 9 children or teenagers.

Screws are parts that are not currently used in commercial assemblies, the parts are joined together based on easy assemblies, but at the same time they lose the opportunity to take a manual skill and dexterity to place them.
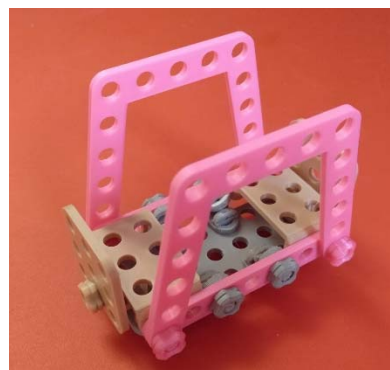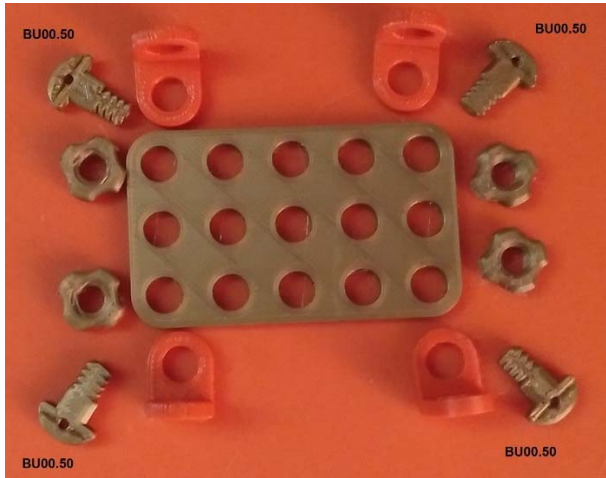
Assembly

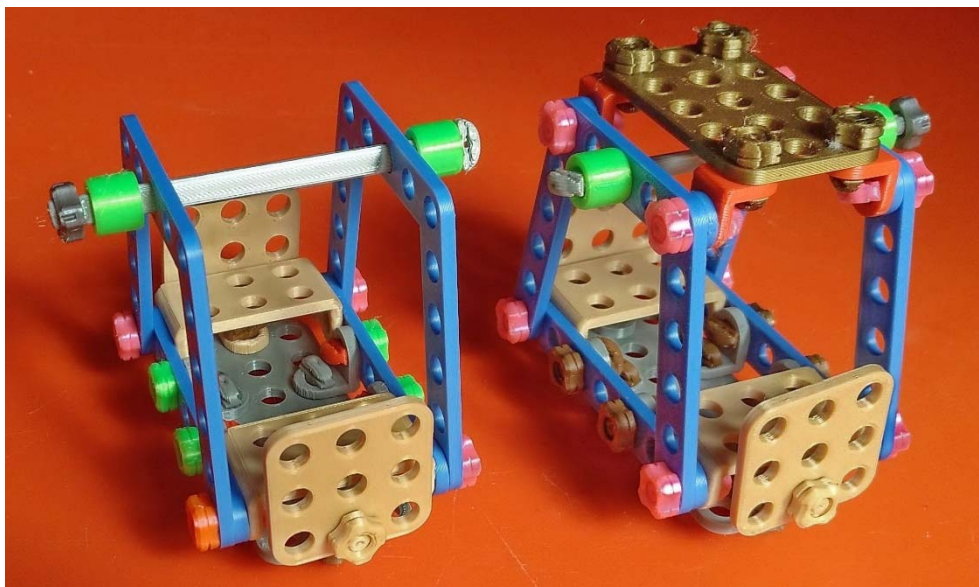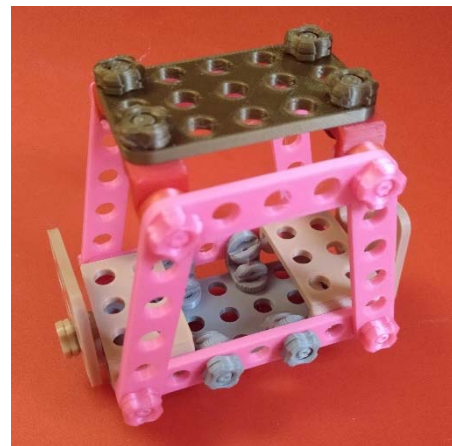**Cabin**
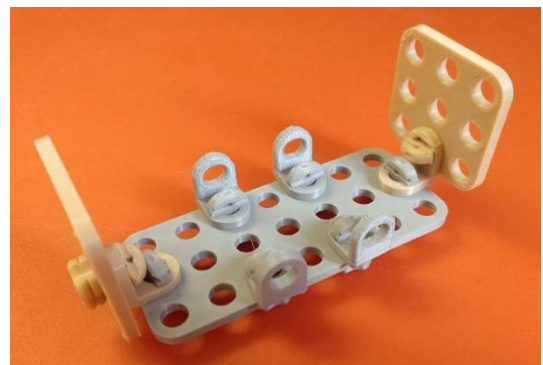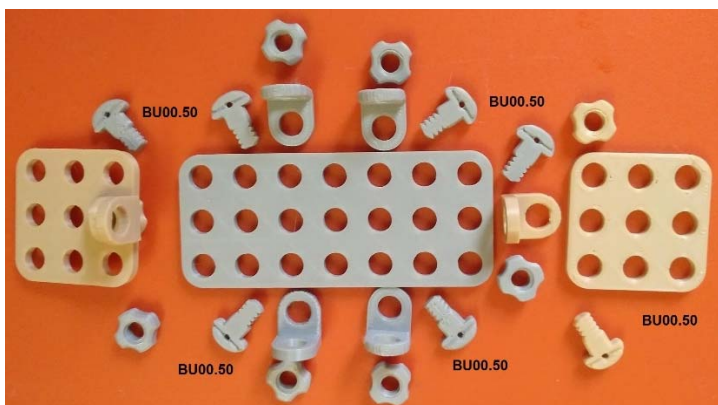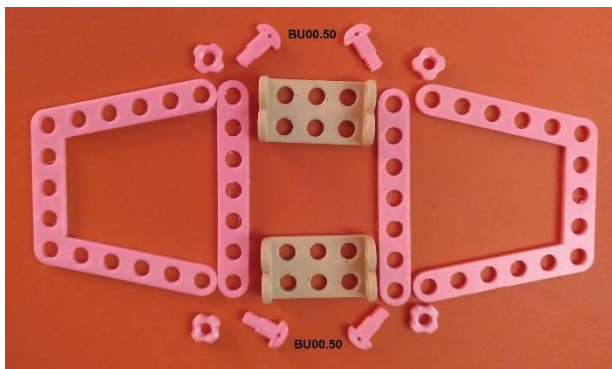
All screws are type **BU00.50**

The cabin can be left at this point, a roofless version for the summer.

If you want the roof version, you need to add this mount for the winter. The screws are type **BU00.50**

To fix the roof to the cabin you need to add 4 screws **BU00.75**, 4 **washers** and 4 **nuts**.
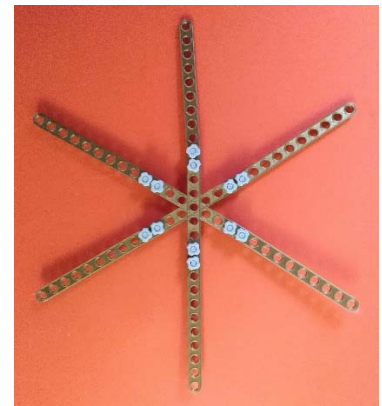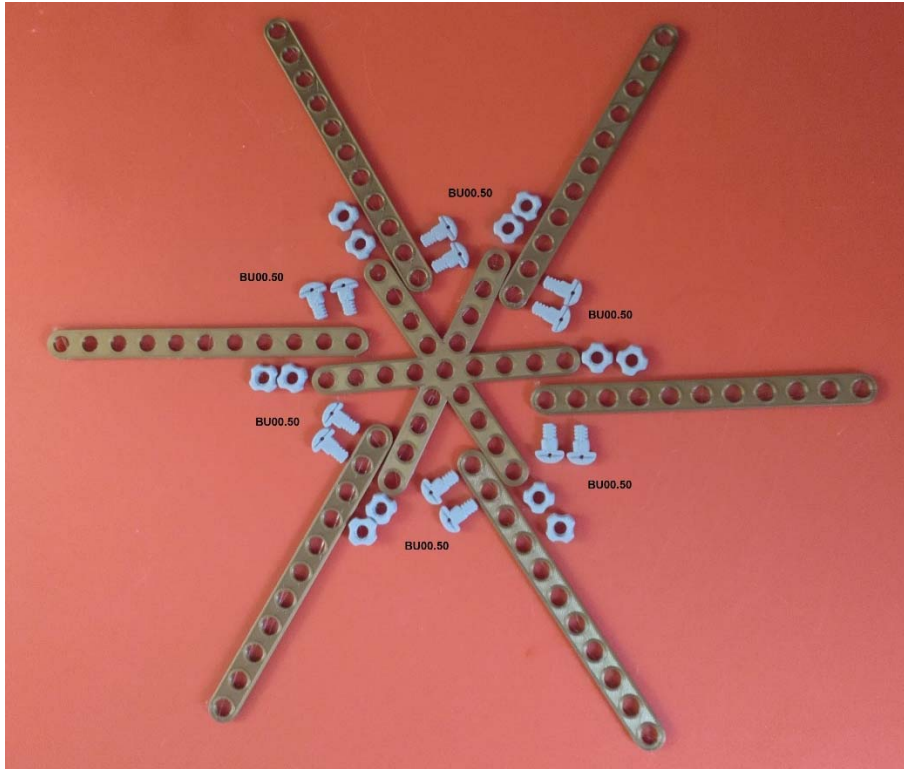

6 cabins are mounted and to fix them to the wheel using **PIN07.00**, **fastener**, and **10mm washers**, this assembly will be shown later.
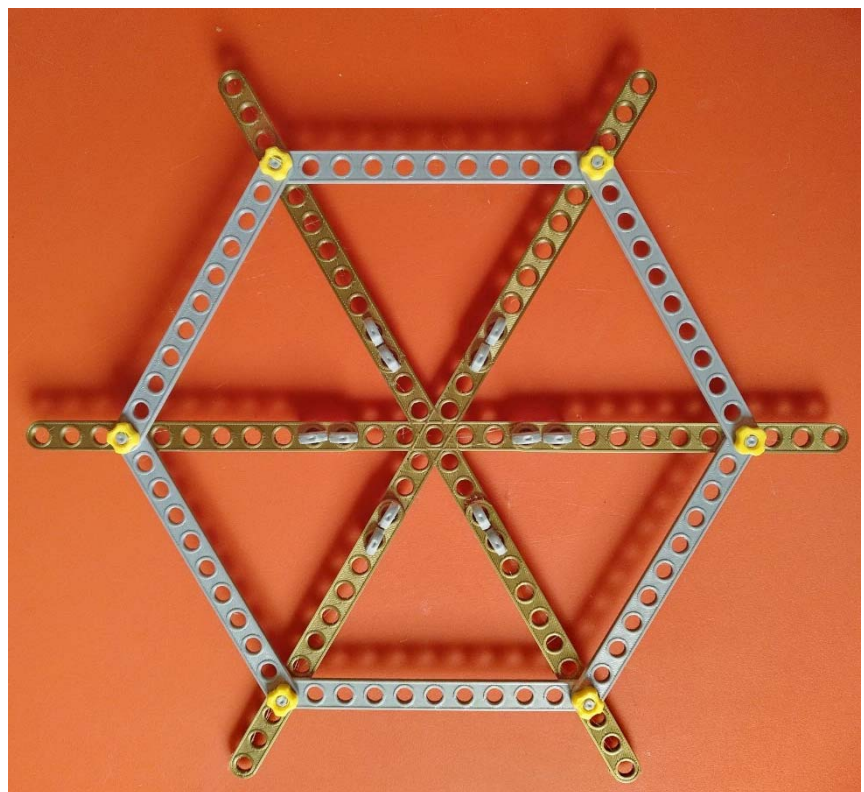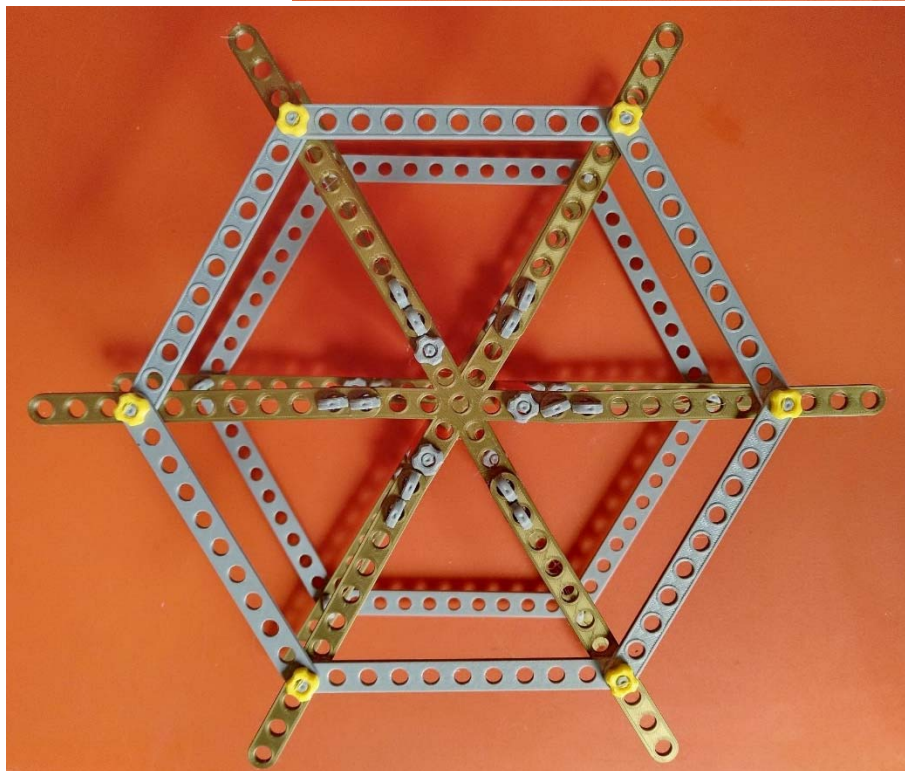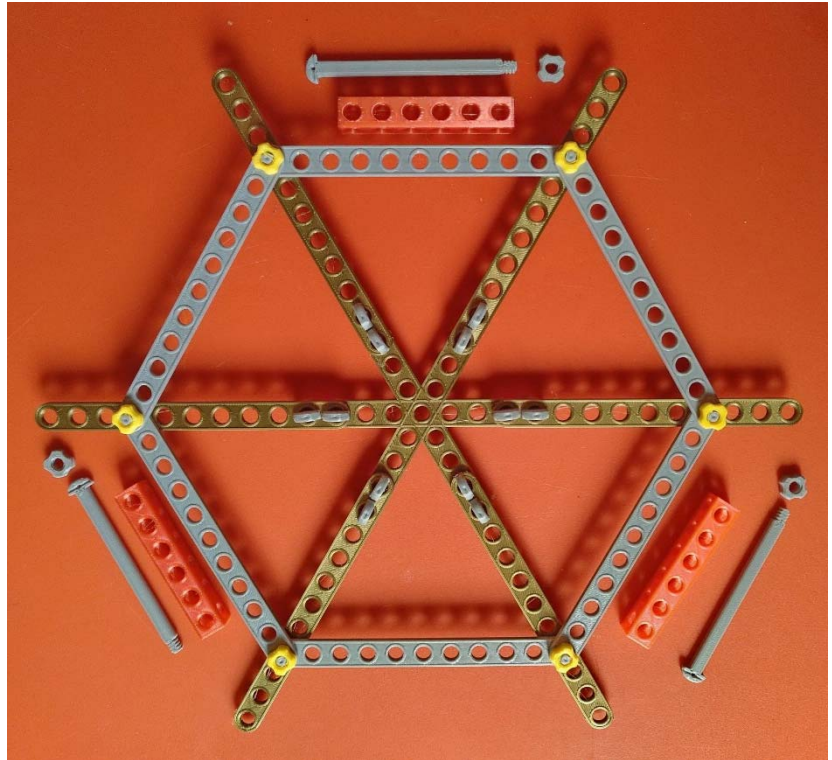
Wheel

For each wheel use 1 **Cross 9x9x9**, 12 Screw **BU00.50**, 6 **Tensor 11** and 12 **nuts**.

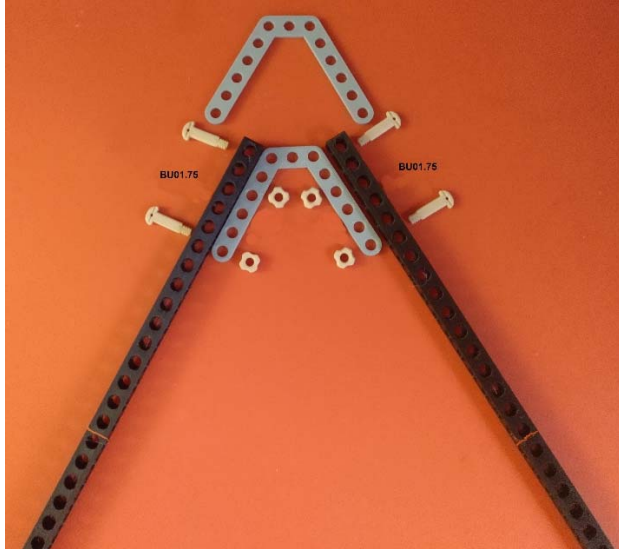Reinforcements of the structure are made with 6 **Tensors 11,** 6 screws **BU00.75** and 6 **nuts**.

The two mounted wheels are joined with 3 **Beams 6** and fixed with 3 Screw **BU06.50** and 3 **nuts**.
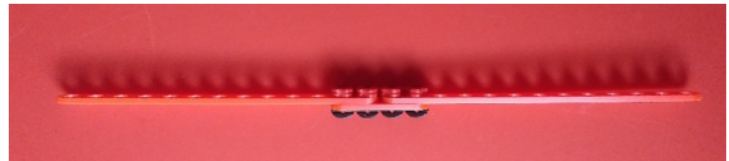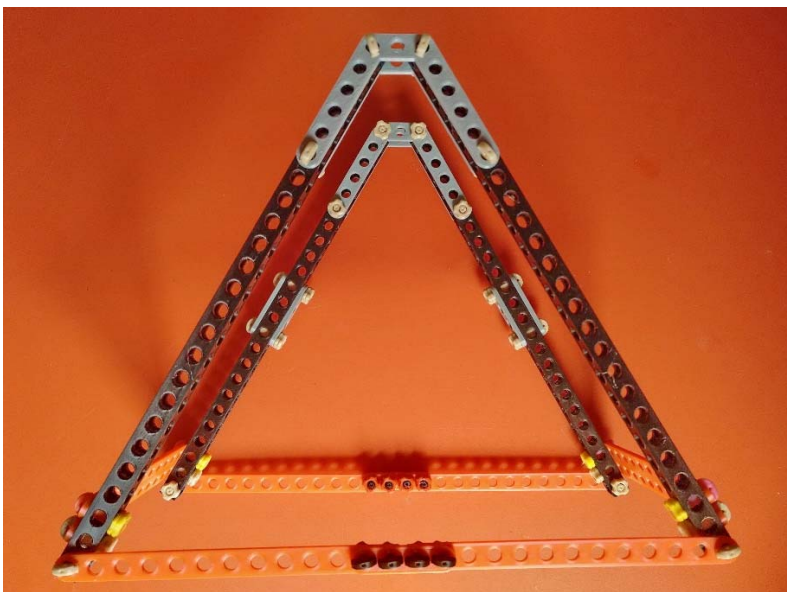
Base

The base is mounted with two identical structures, with 4 **Beam 12**, which are joined by 4 **Tensor 4** and 2 **U**, fixed with 8 Screws **BU01.50** and 8 **nuts**.

Two identical tensors are mounted for the base, being so long it is done with 2 **Tensor 13** joined with a **Tensor 4** and 4 Bolts **BU00.50** and 4 **nuts**.


The two structures are joined by 4 **Tensor 12**, 8 Screws **BU01.50** and 8 **nuts**. In this way they give more solidity to the structure.

Now all that remains is to join the **Base** with the **Wheel** and finally hang the **Cabins**.

The **Base** joins the **Wheel** using a **PIN 166mm** shaft and give space between the wheel putting 5mm **washers** as separators, six in one side and 7 in the other side, at the end a **fastener** leaves the shaft free.
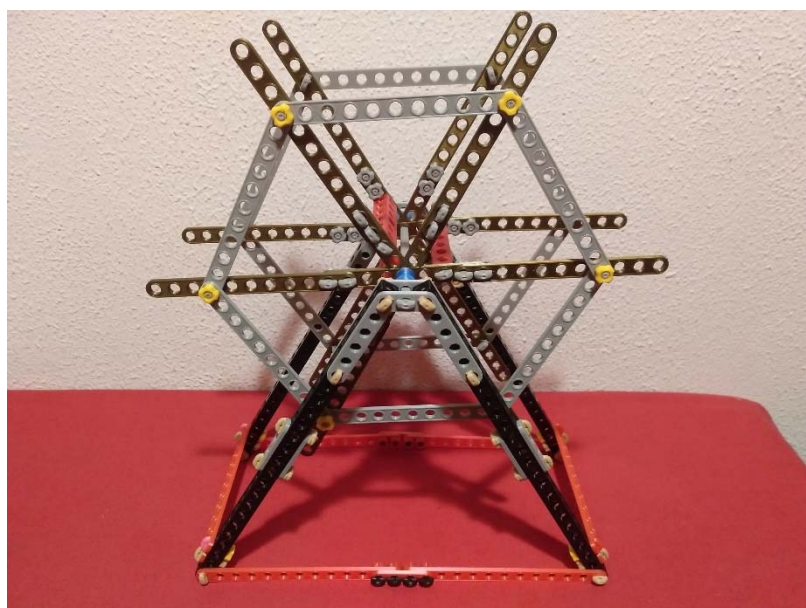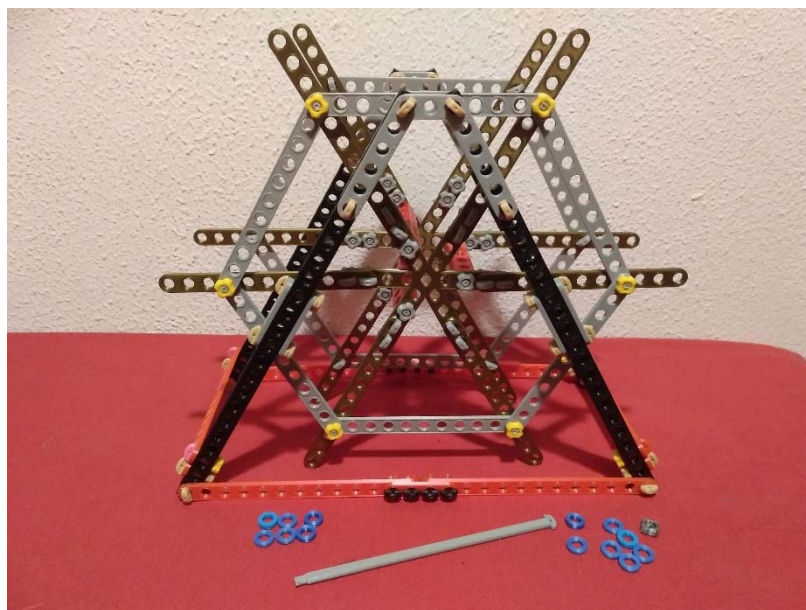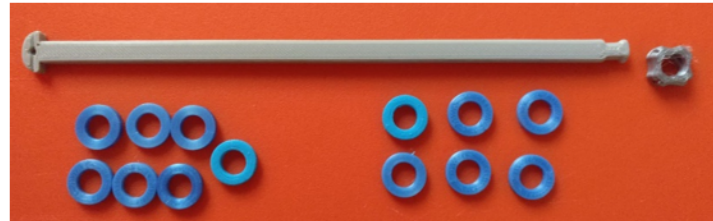
Each **Cabin** is hung at each end of the Wheel using PIN **BU07.00** two **10 mm washer** and the **fastener**. The cabin is free to move.
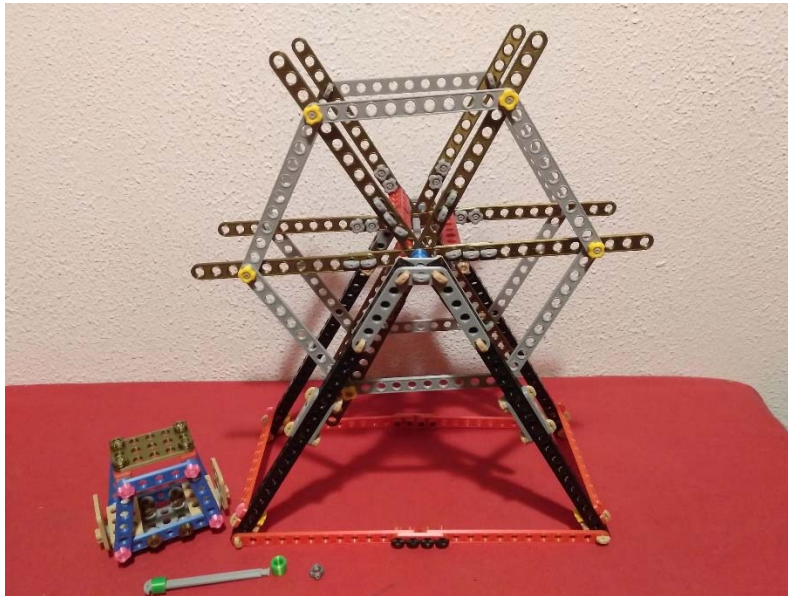
The Ferris Wheel is complete ... or not ... why not add an engine and automate the system?