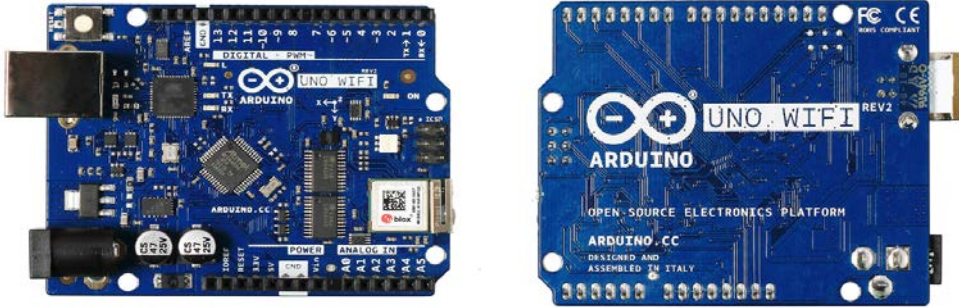# Interactive Swing

- [Arduino Uno Wi-Fi Rev. 2](#)

- [Position sensor GY-25A](#)
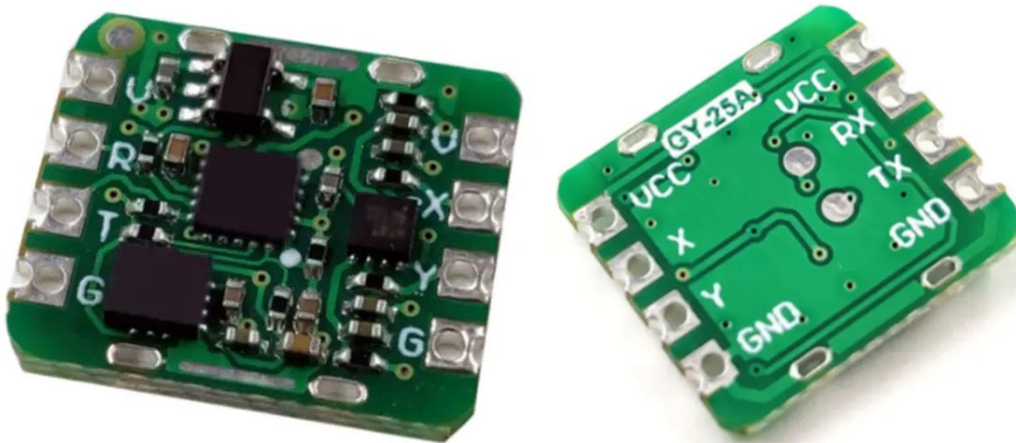
Wiring diagram:
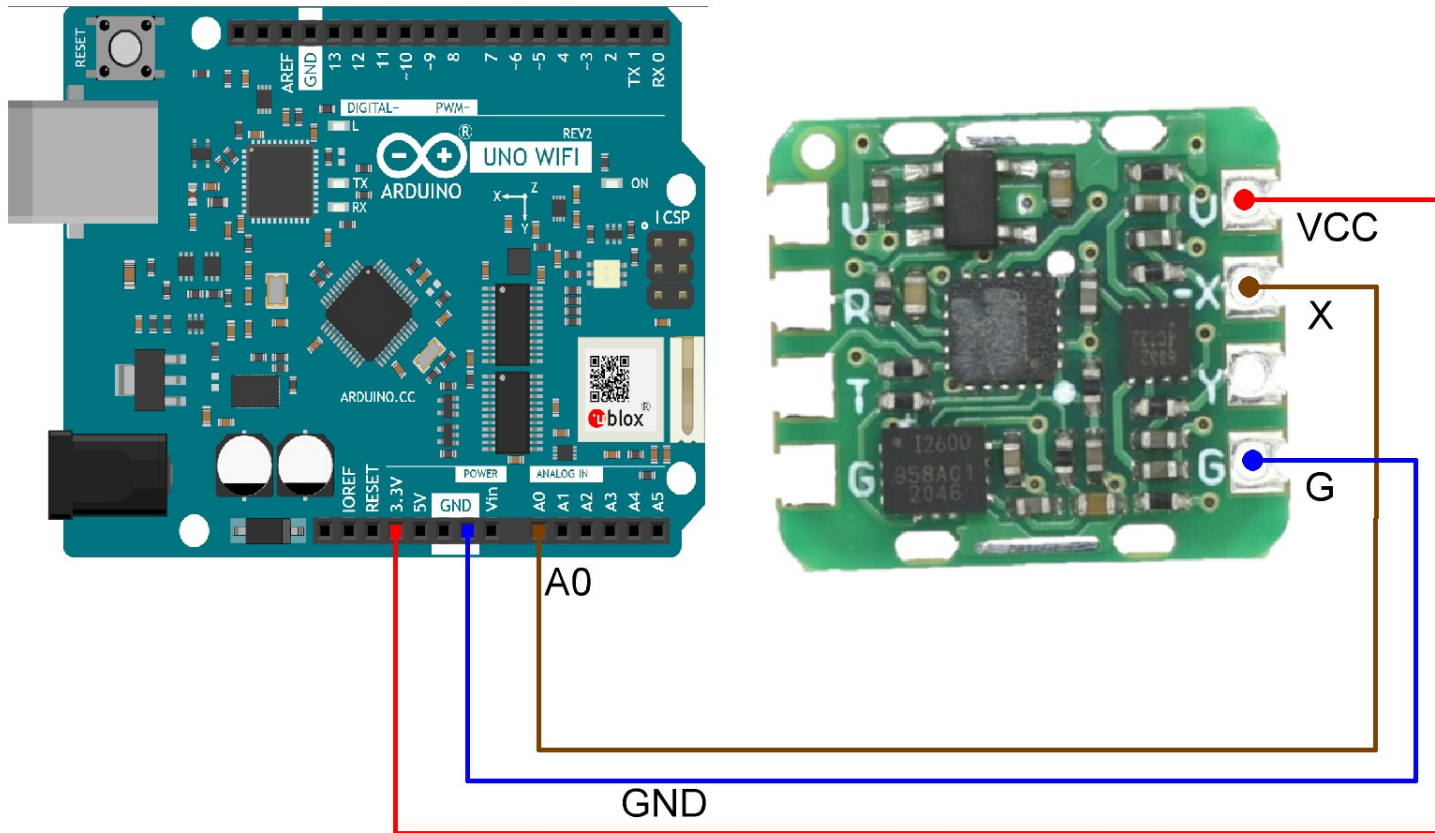
| Arduino	GY-25A
3.3V	VCC
A0	X
GND	G

Assembly:

Fix the Arduino board to the bottom of the case with M2x5 screws:

Sensor case could be created via 3D printer, sample models for square ([part 1](), [part 2]()) and oval ([part 1](), [part 2]()) boxes available.

The position sensor is installed in the fixture with radio elements down. The VCC, X, Y, GND pins must be directed as shown on the picture (opposite the Arduino pins - soldering is done on the side without elements).
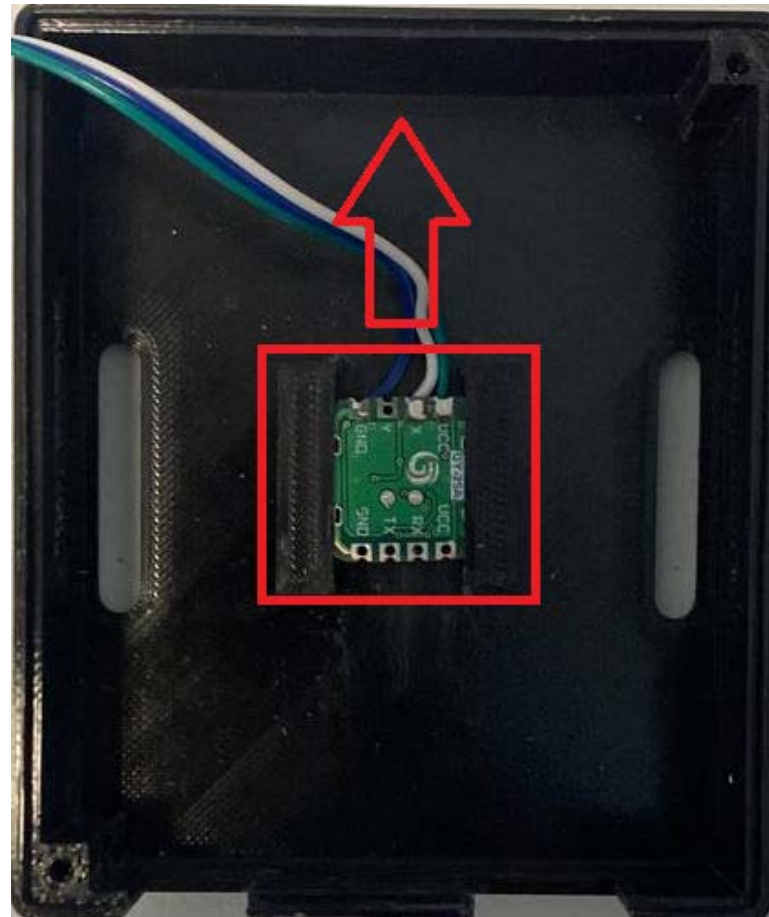
- The position sensor is connected to the Arduino board VCC->3.3V X->A0 G->GND

- You can drag Velcro through the top cover (where the position sensor is installed).

- Assemble from two parts into one, tighten the screws M2x20

Connection
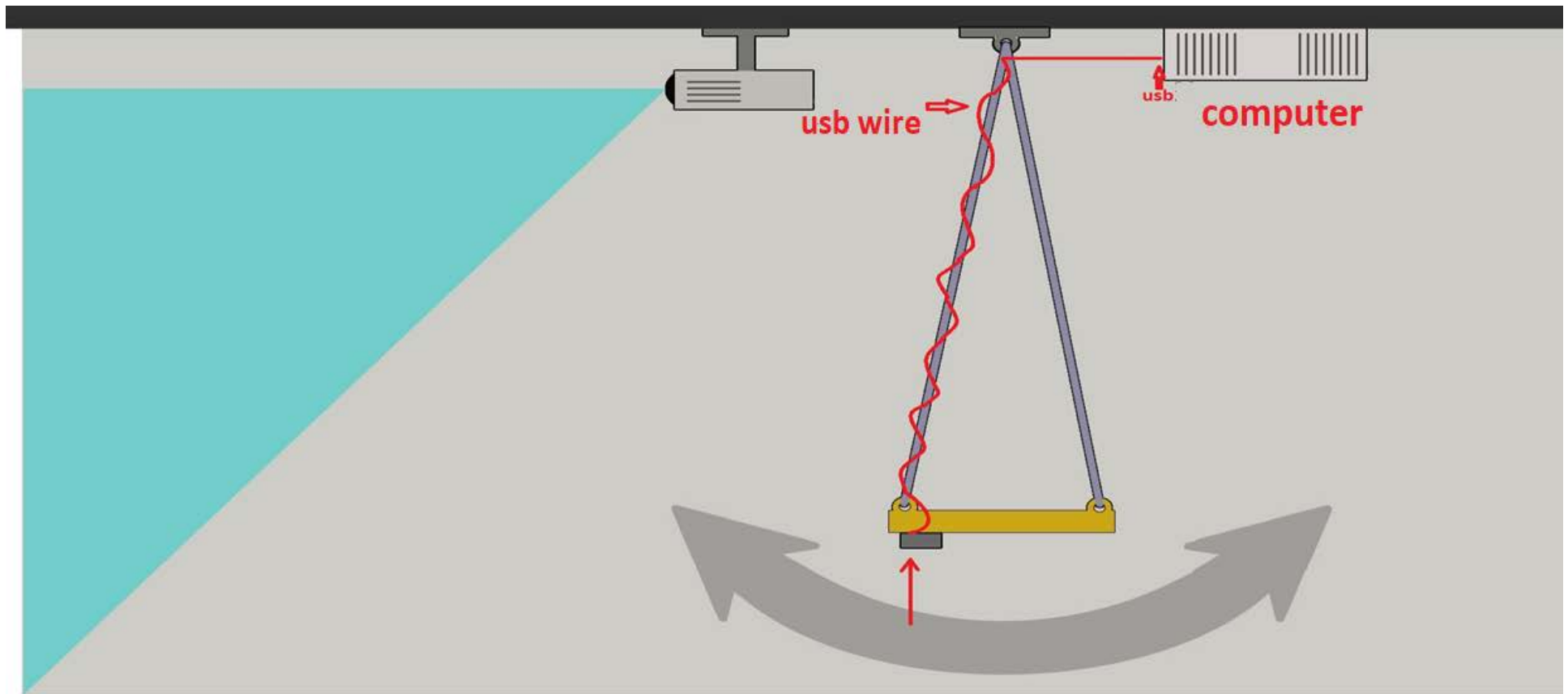
- Arduino Uno is connected by USB (USB A(m) USB B(m))

Maximum Length of USB cable:

15м usb 3.0

15м usb 2.0

Installation:

- Installation is performed on the front (Option # 1) or rear (option #2) lower part of the swing. **The USB port should be directed to the right side**, the wire is stretched along the swing rope on the right side and connected to the USB port of the computer
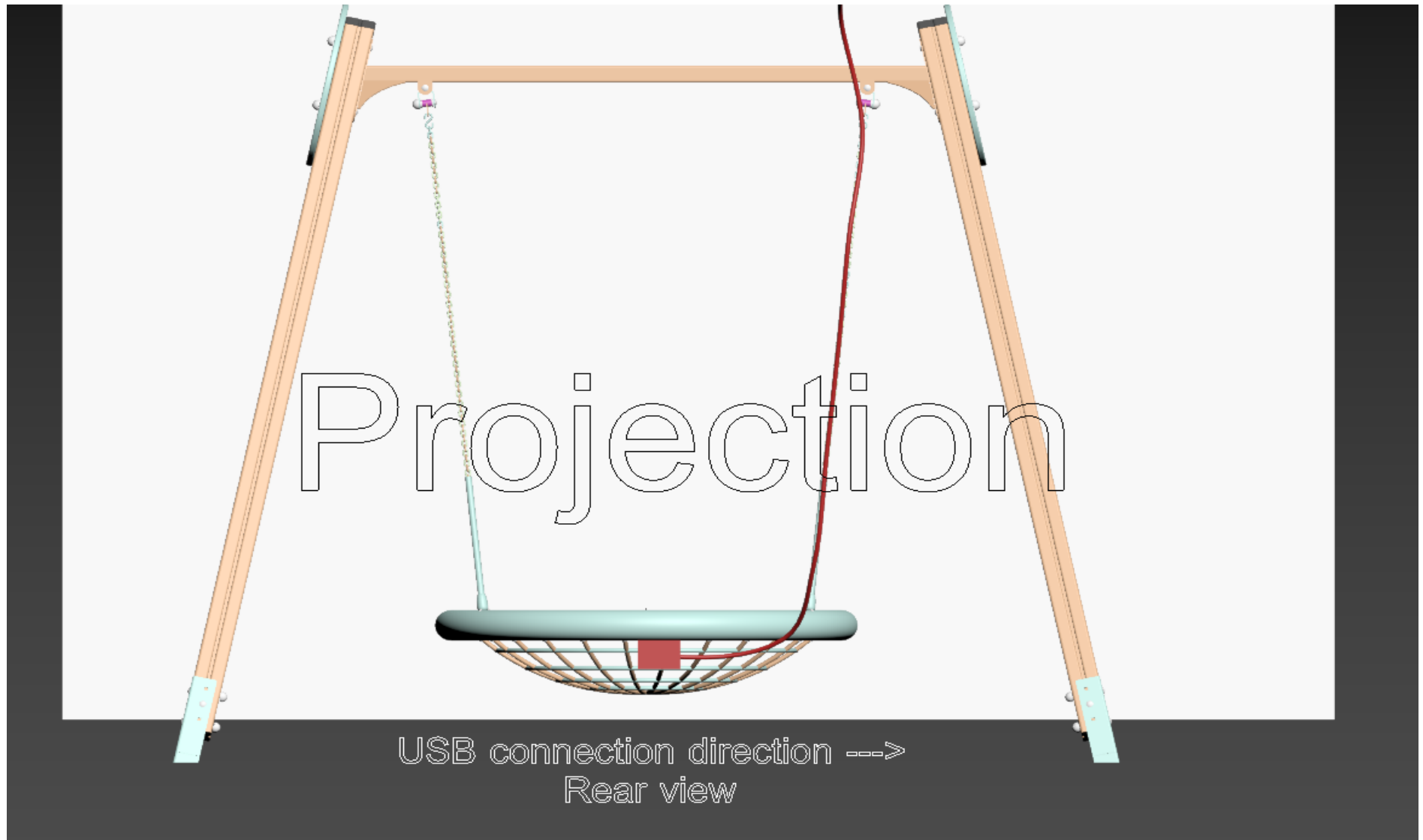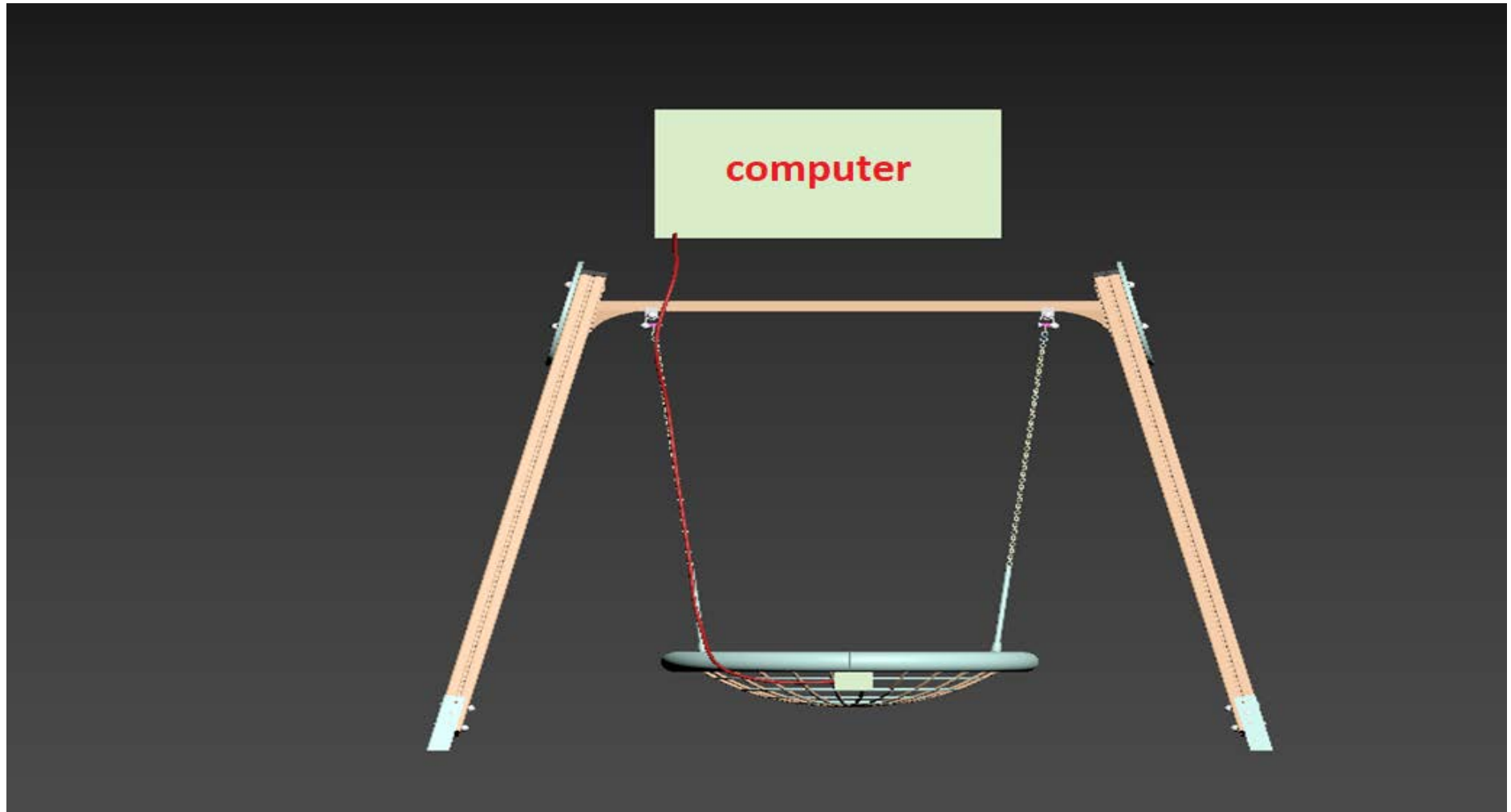
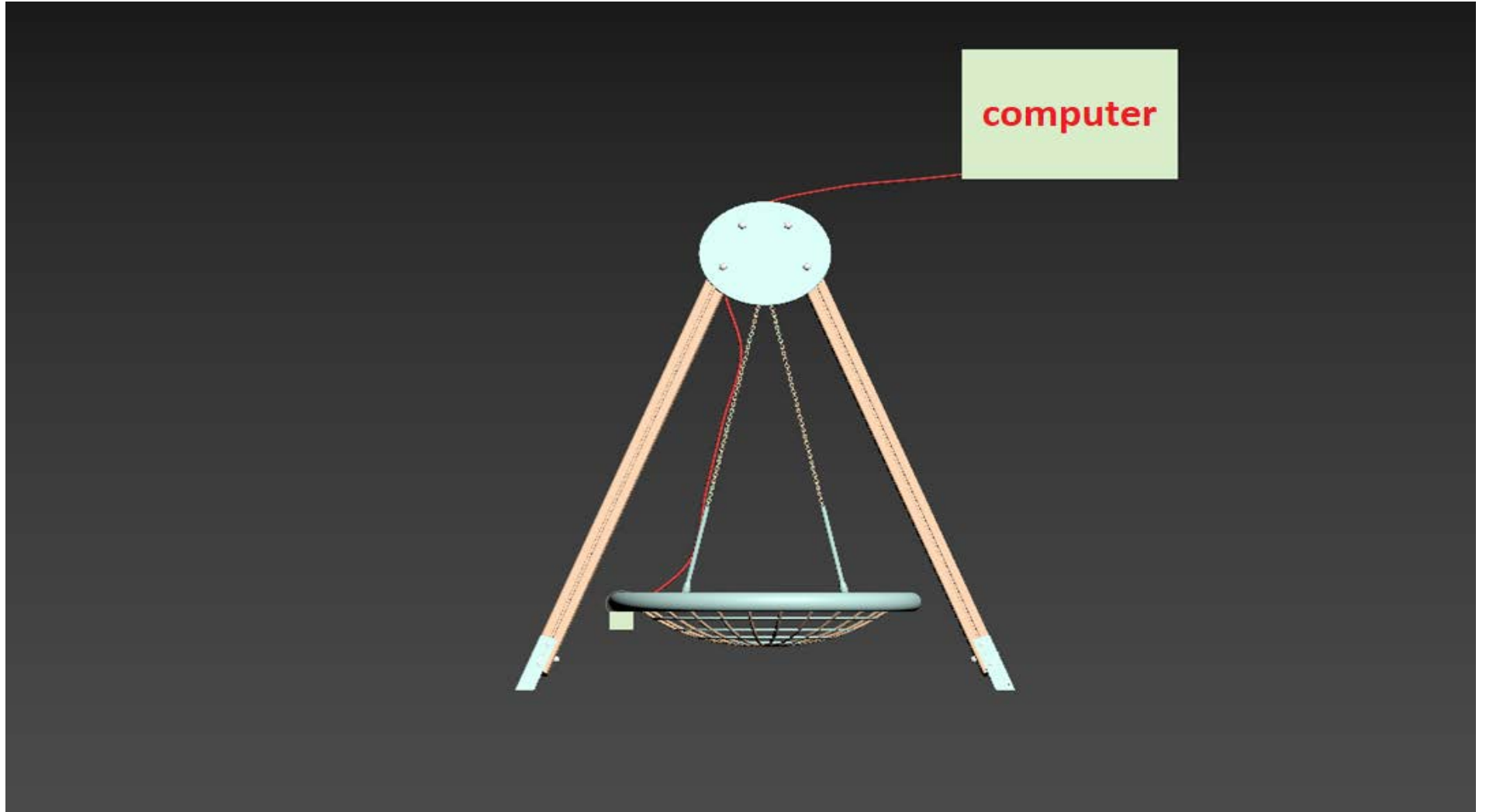# Option No. 1. Mounting the device on the front of the swing.

USB connection direction --->
Rear view
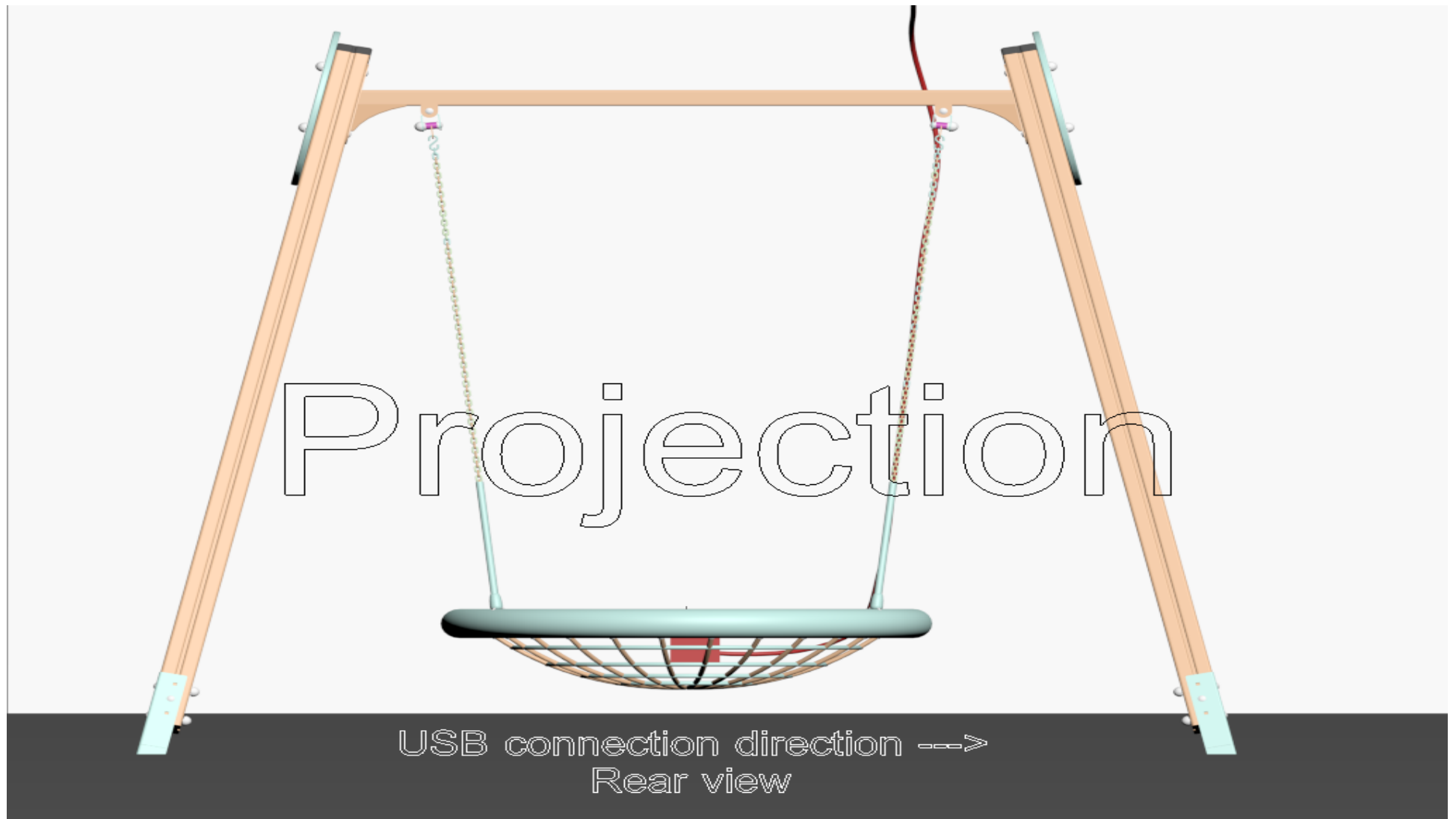
Option No. 2 Mounting the device on the back of the swing

USB connection direction --->
Rear view

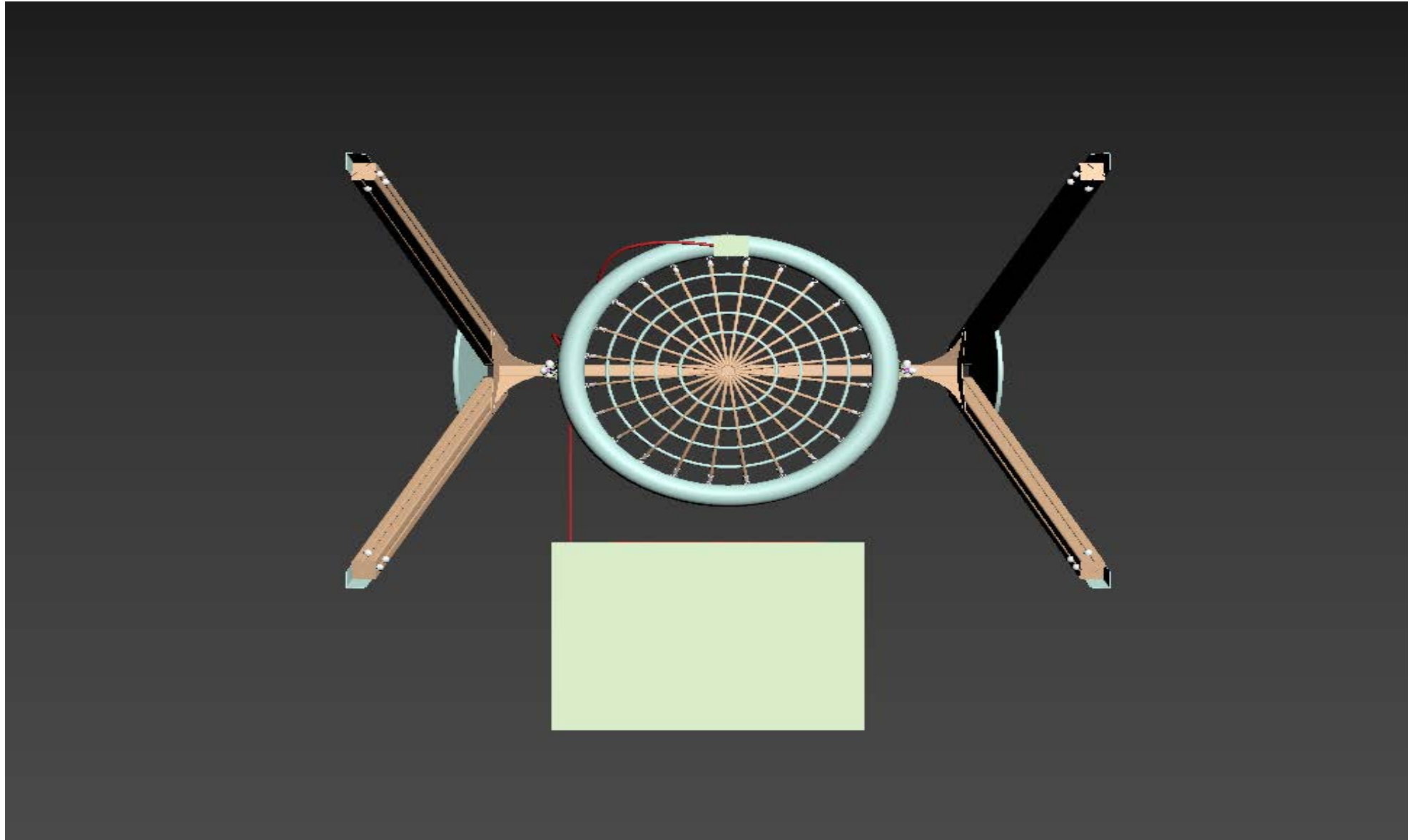# Front view (option #1)

Side view

Bottom view

To check the connection of the swing to the PC:

Go to Interactive Launcher and launch a game from the swing category, swing the rocker, if the game has started and there is movement - the swing and the PC are connected right and ready to go.