**STEM Lesson n°1 v1.0“Assembling the Pedro Robot”**

**🎯 Learning Objective**  
Discover the Pedro robot, understand its basic operation, and explore its different control modes.

Students will learn:

* Basic concepts of robotics (programming, embedded systems, planetary gear systems)
* How a 3D printer works
* How to identify the components of a robot
* How to assemble a robot

**🛠 Required Materials**

✅ All Pedro robot parts printed in 3D

✅ 2 ball bearings

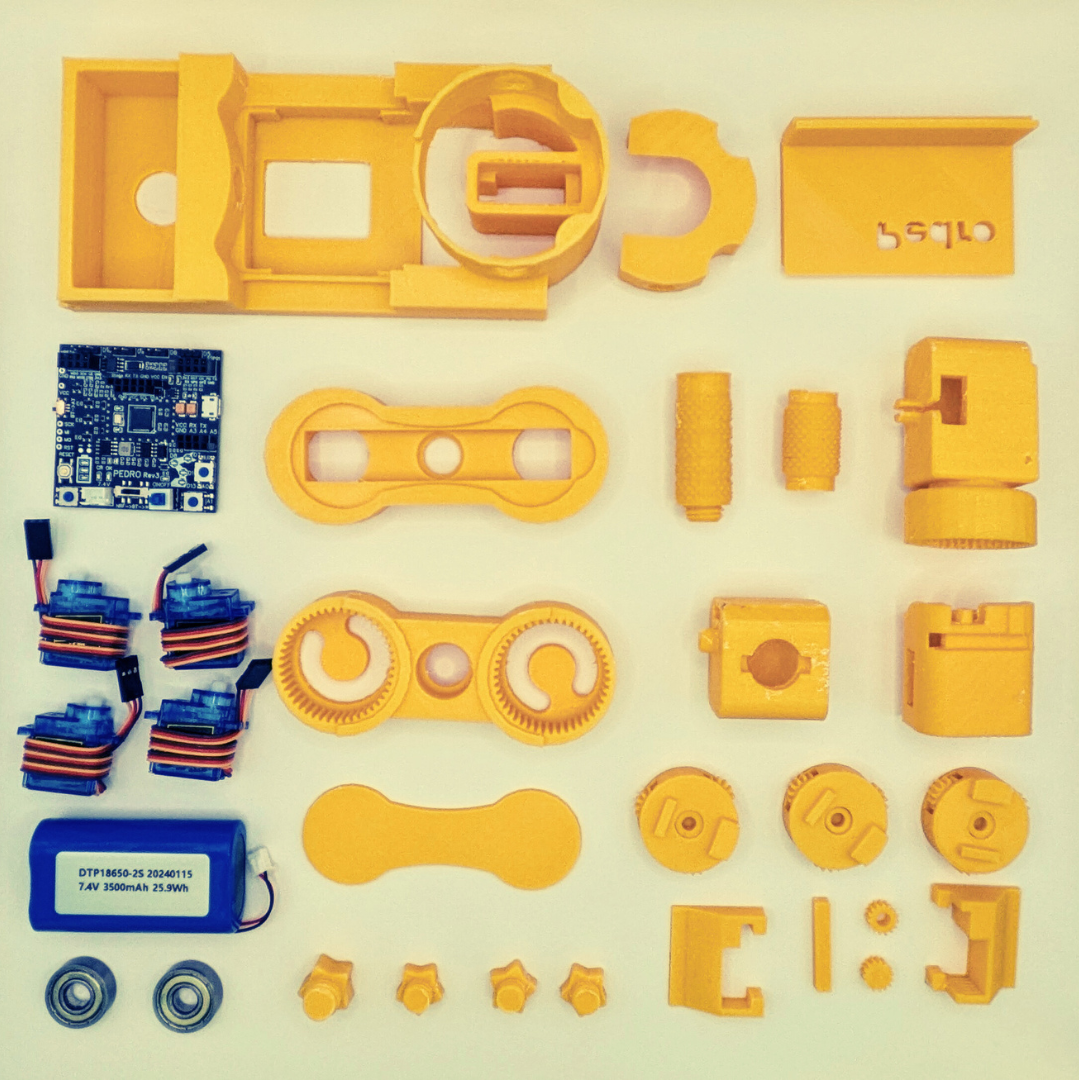
✅ 4 continuous rotation (360°) servomotors

✅ 1 micro USB cable

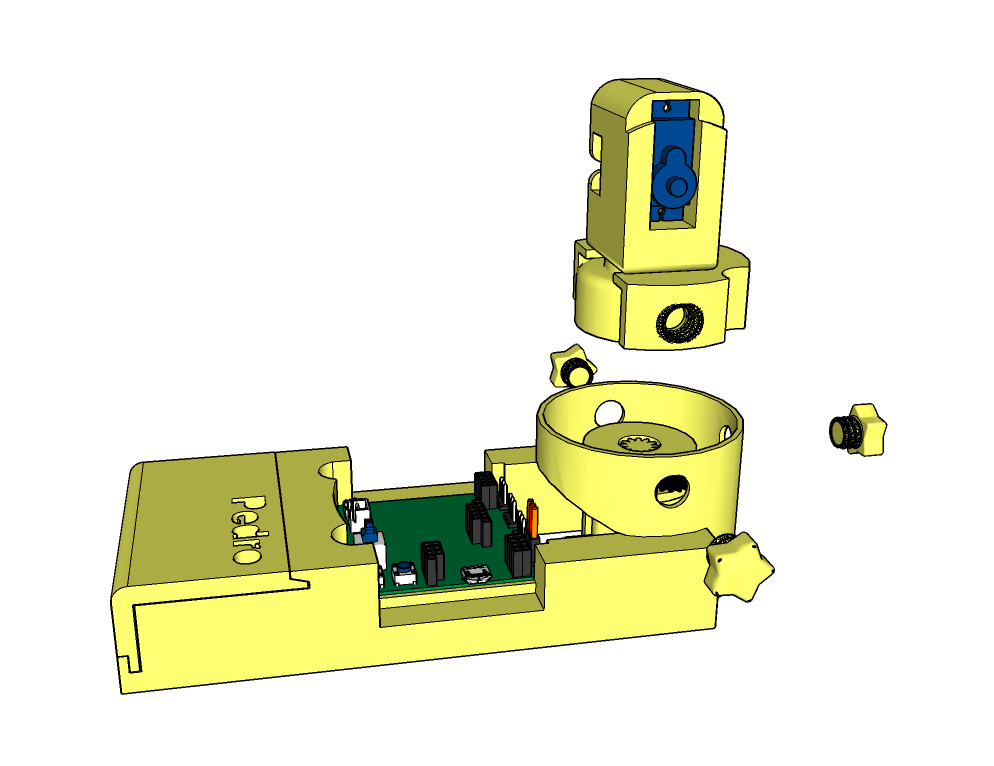
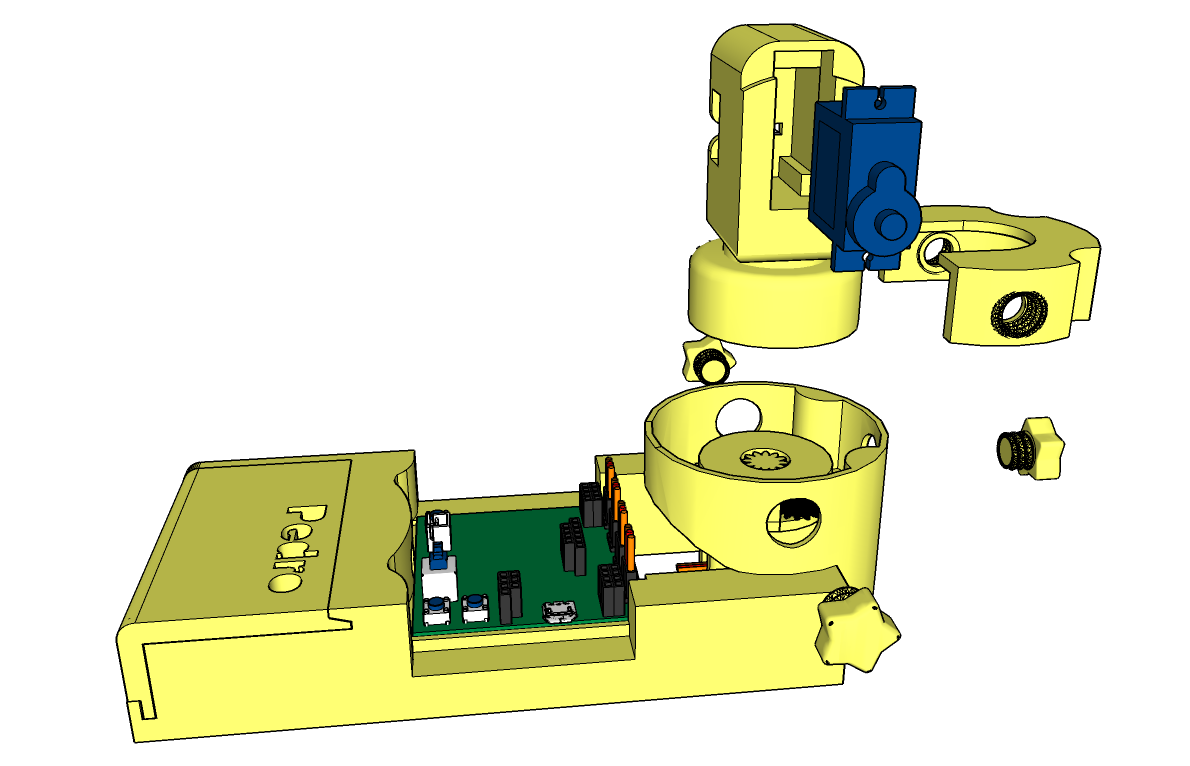
✅ 7.4V battery

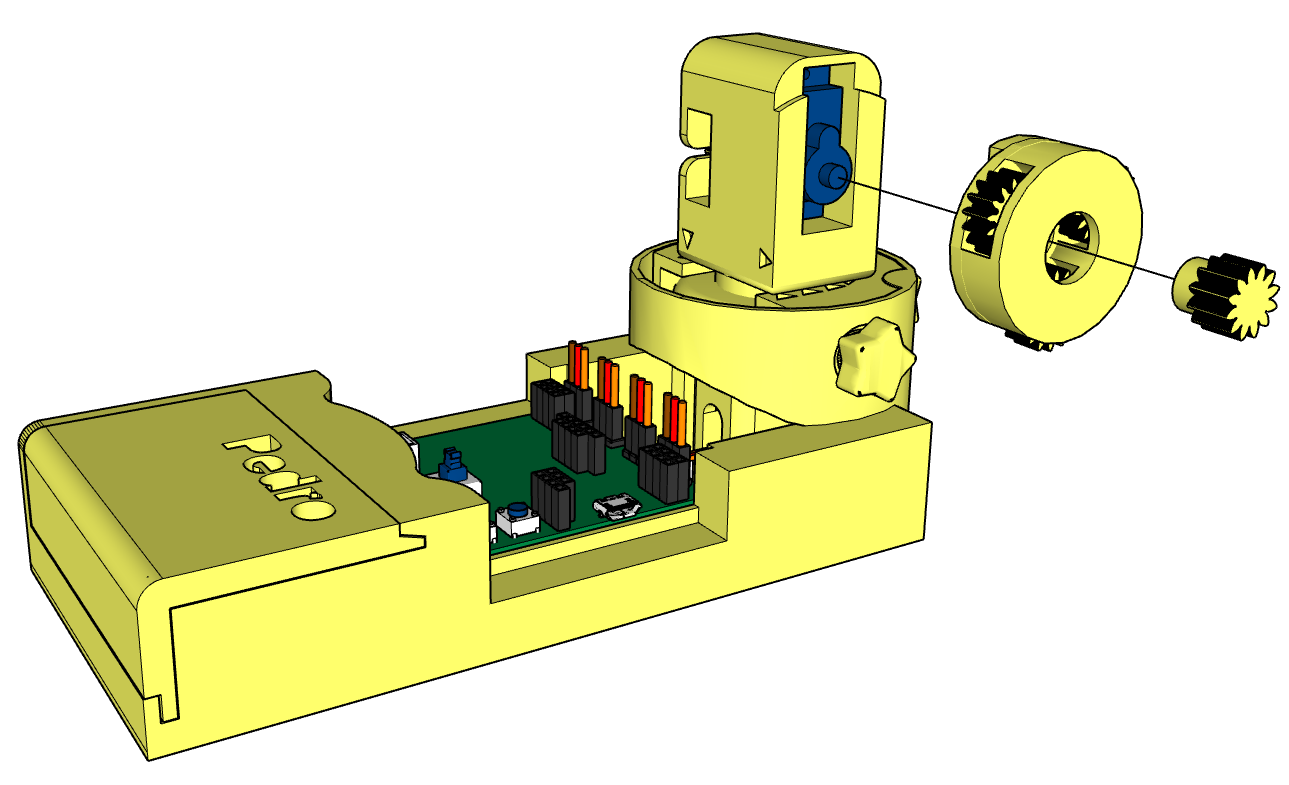
✅ Pedro Rev3 Electronic Board

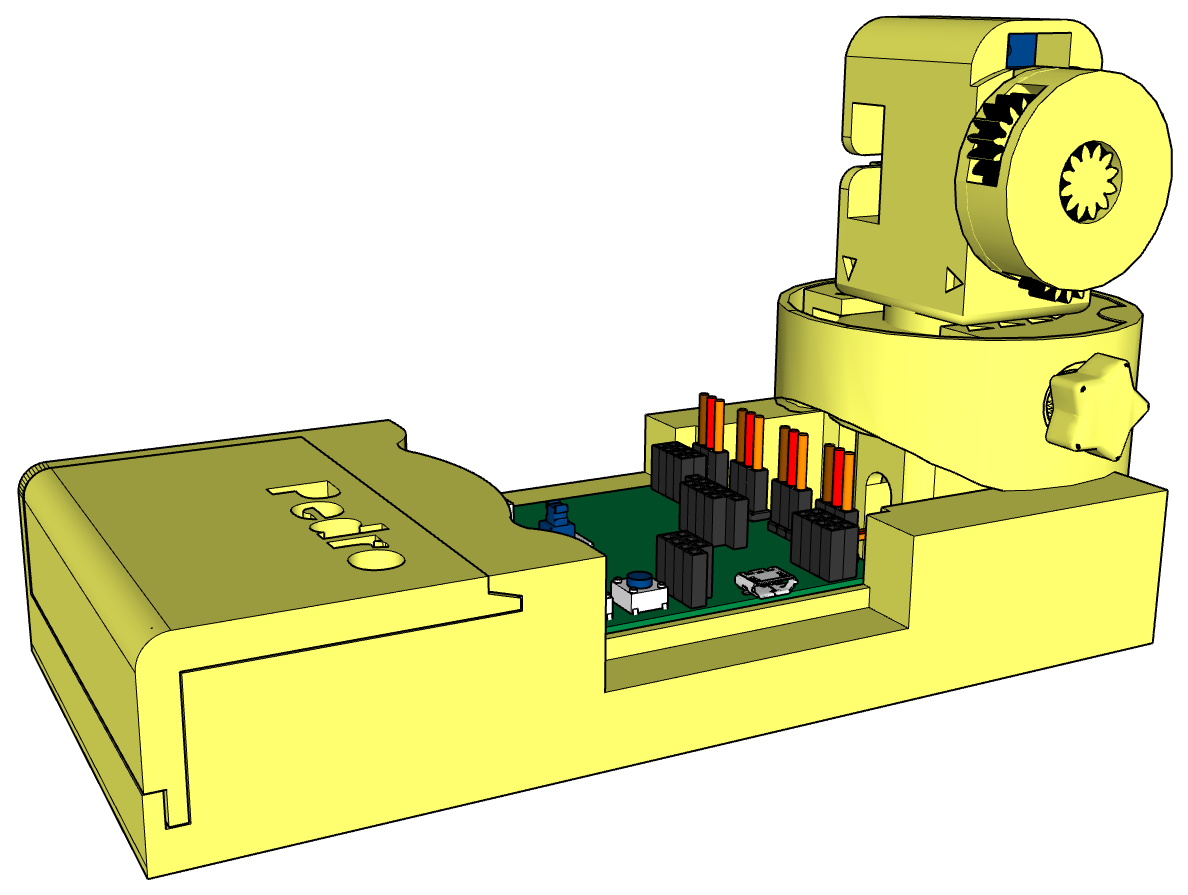
✅ PC (Windows, Linux, or OS X) with Arduino IDE installed

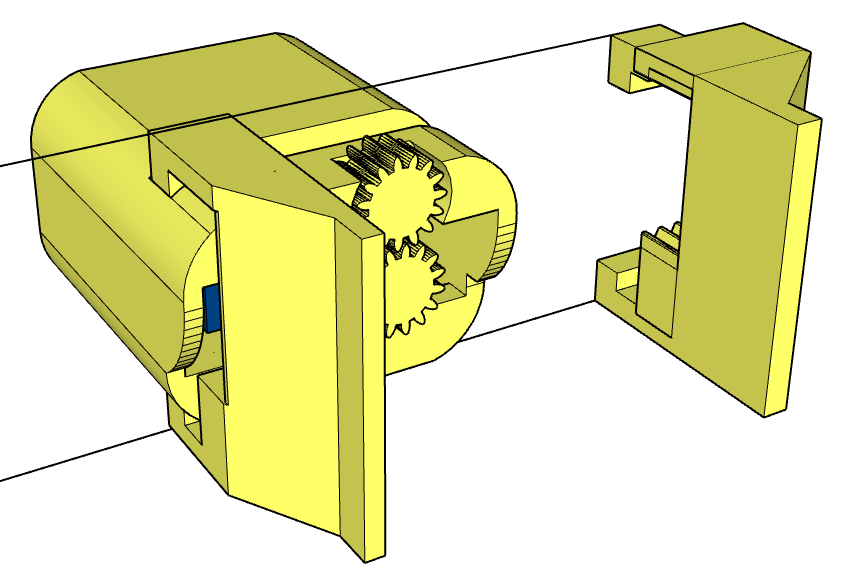
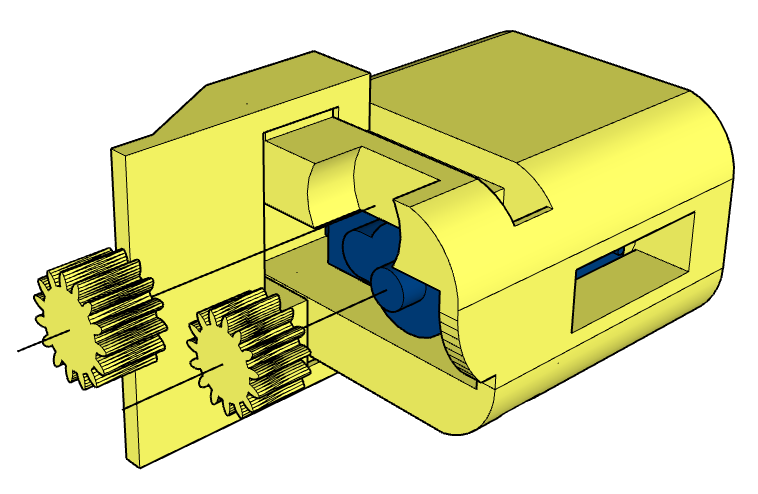


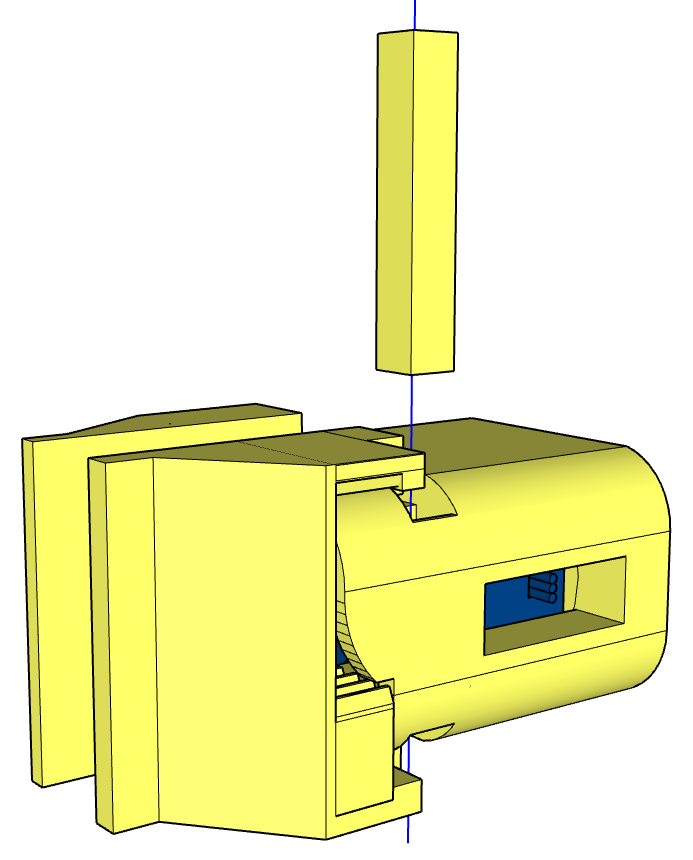
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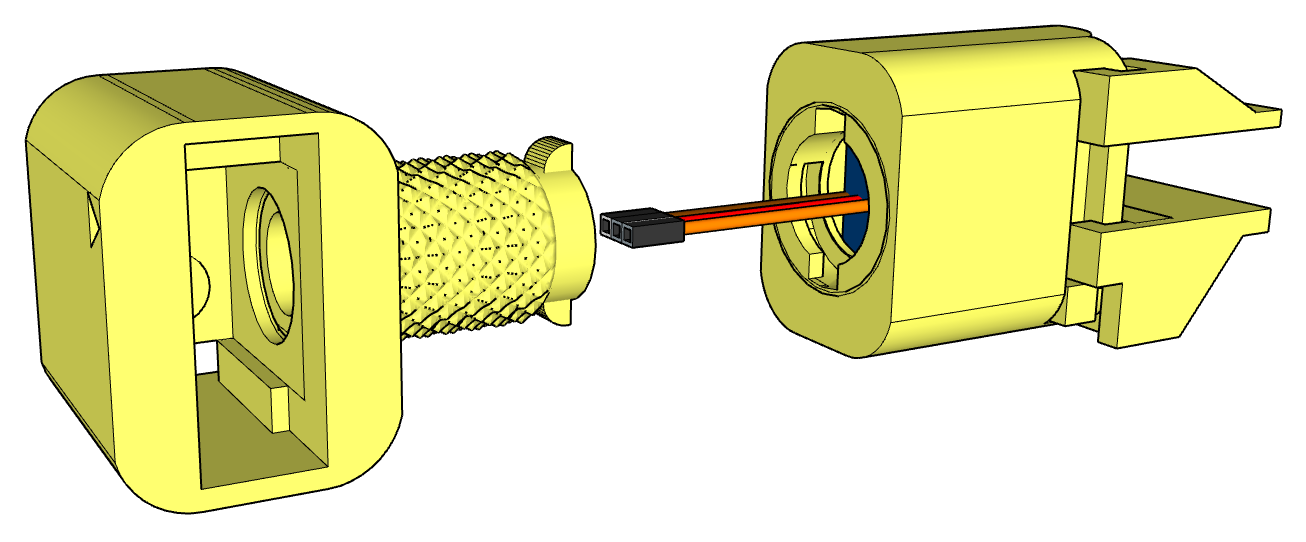
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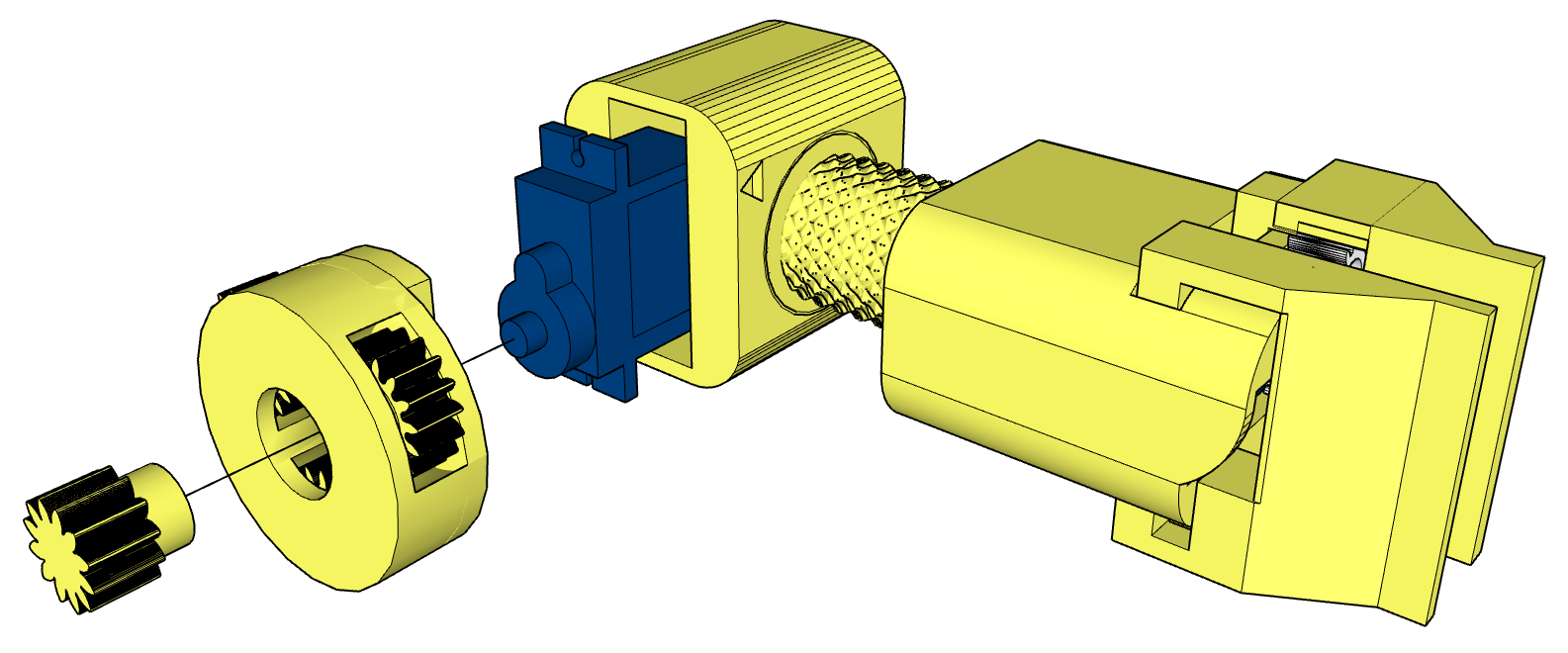


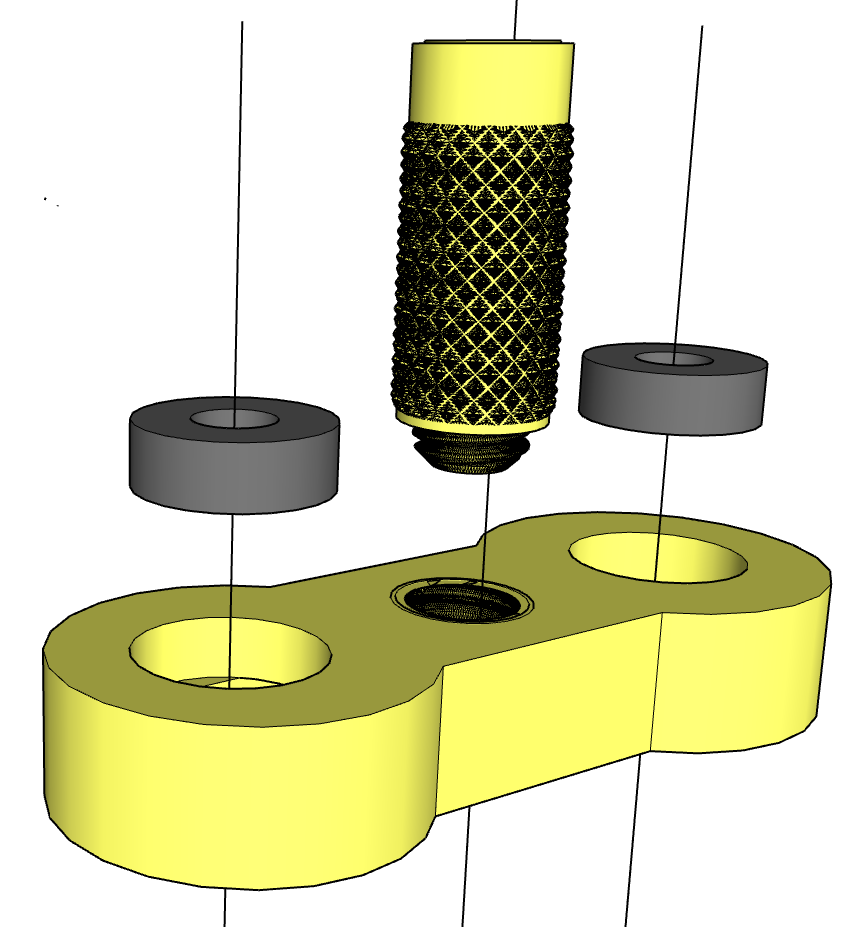
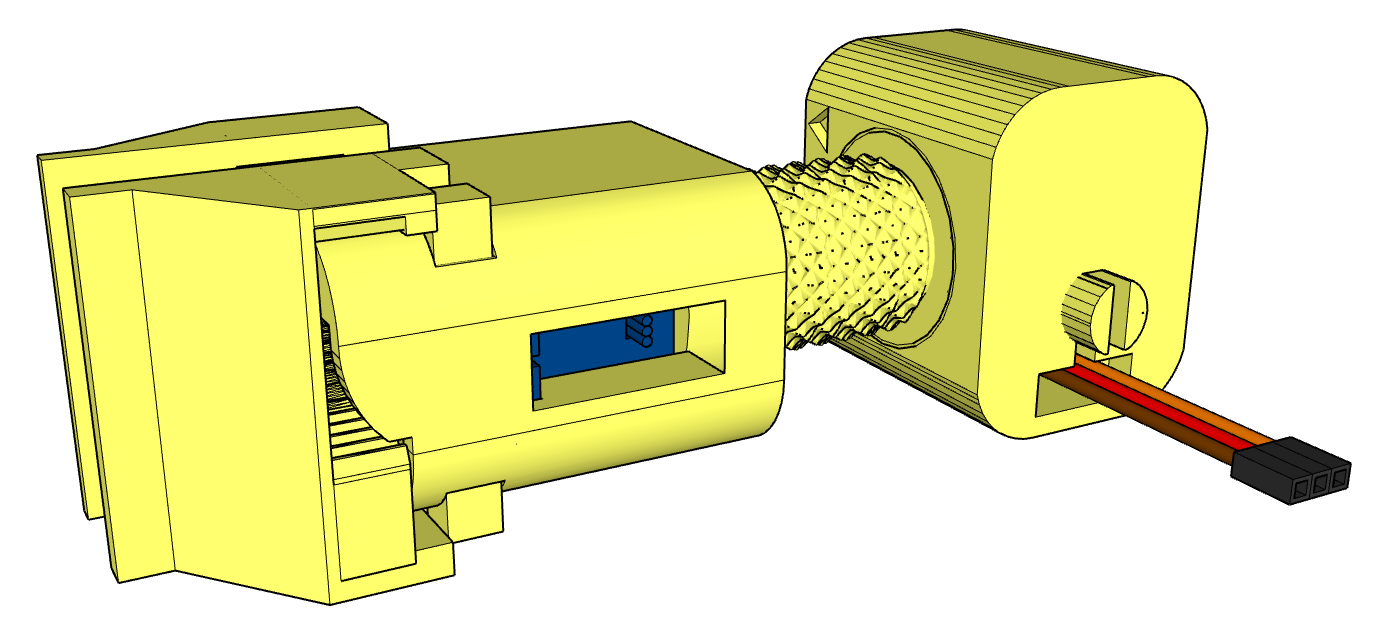
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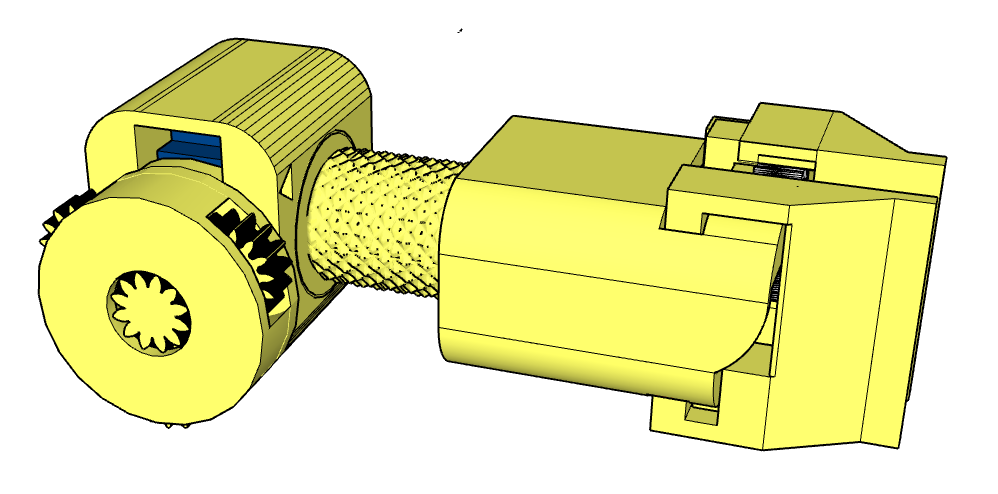


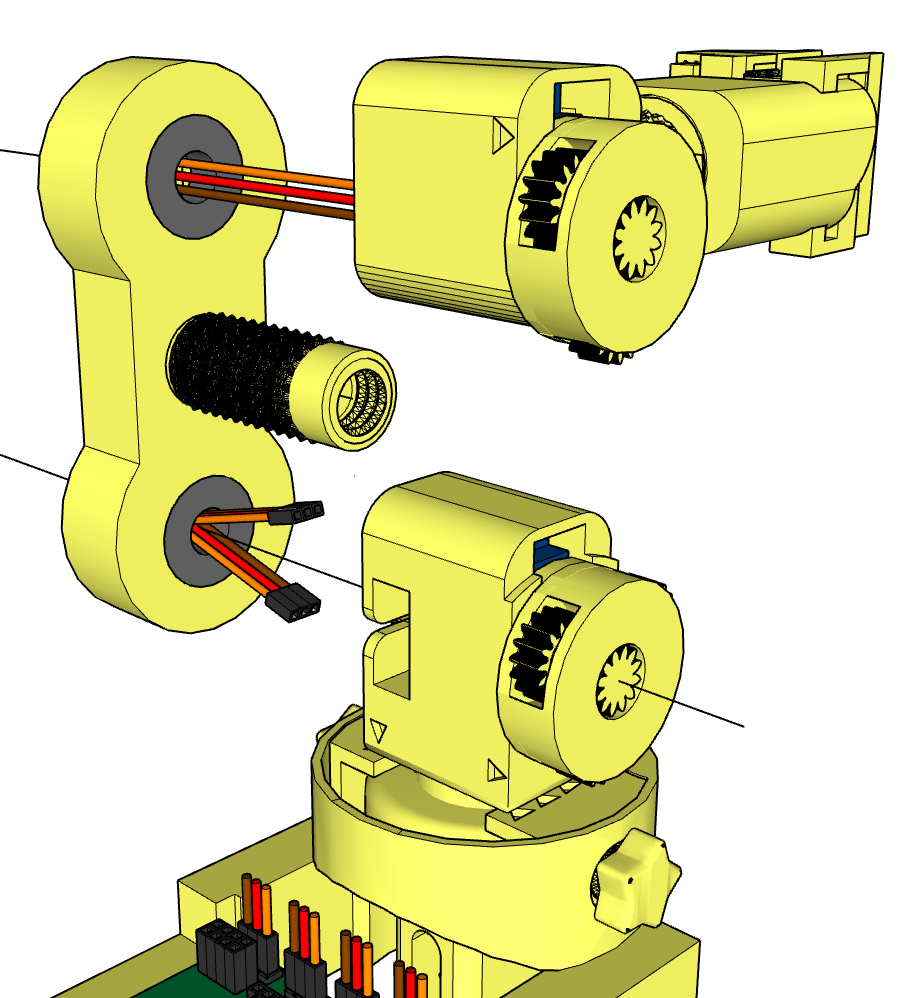


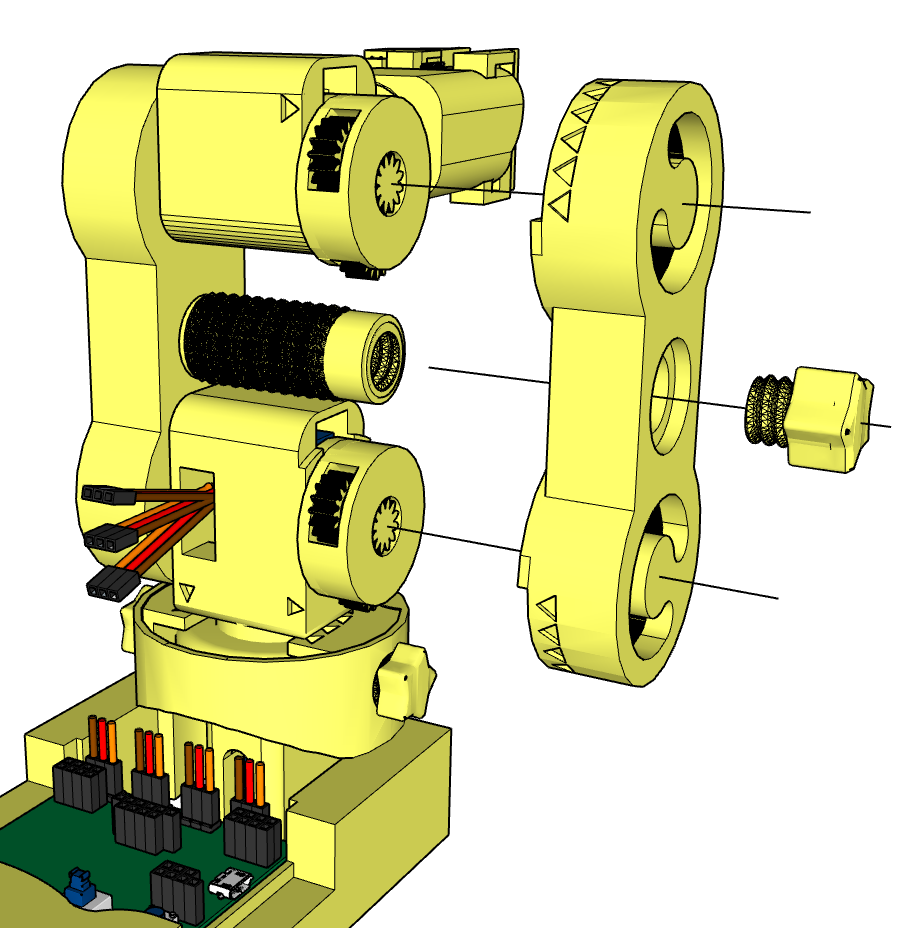


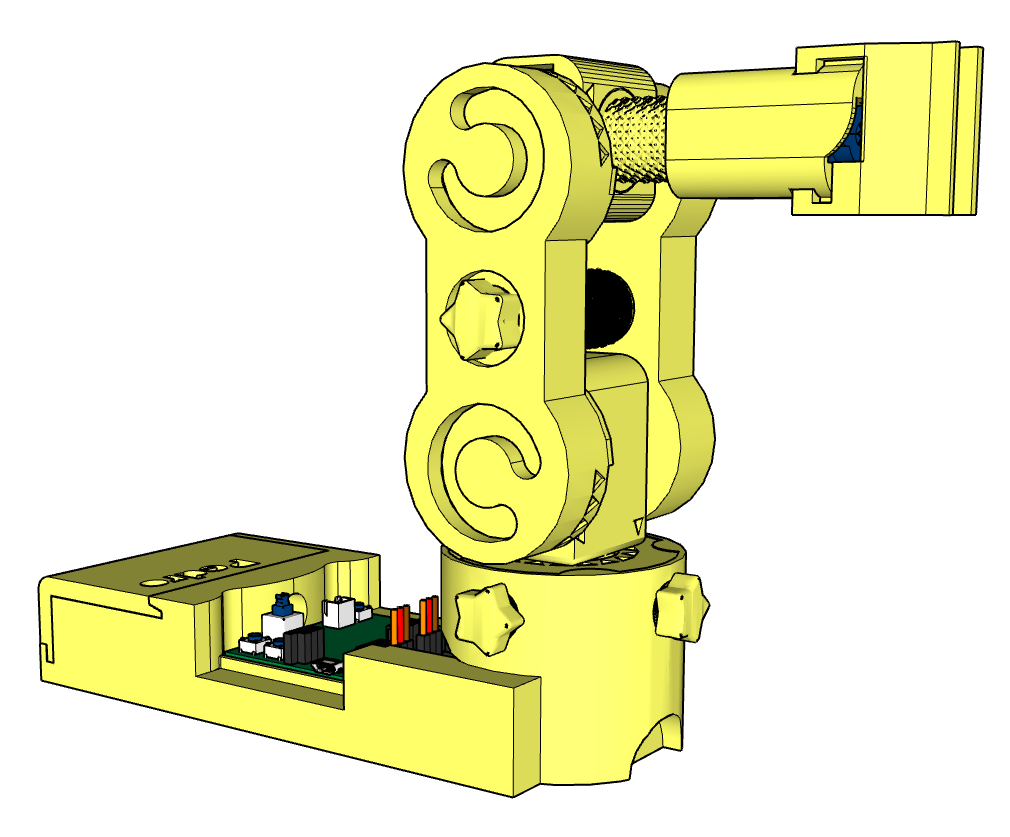






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