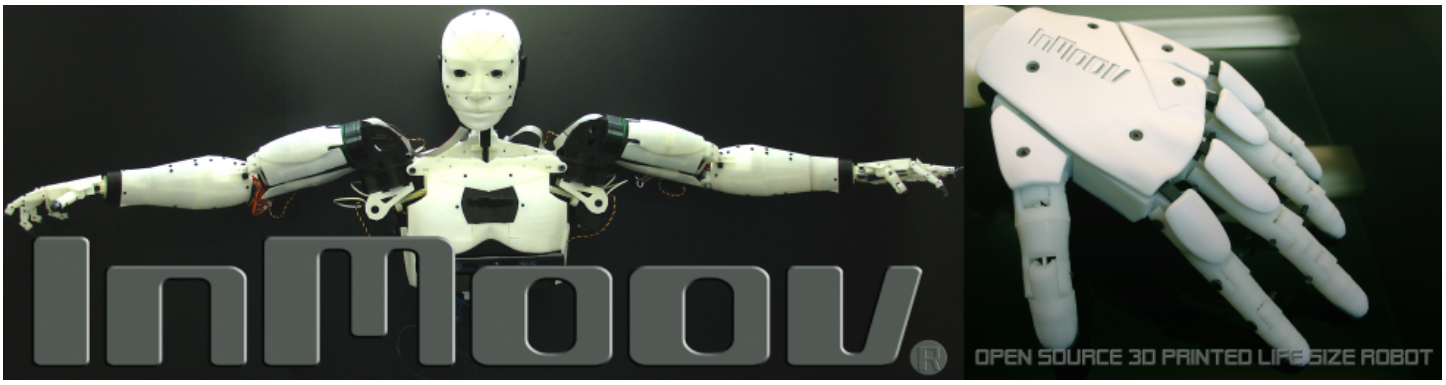
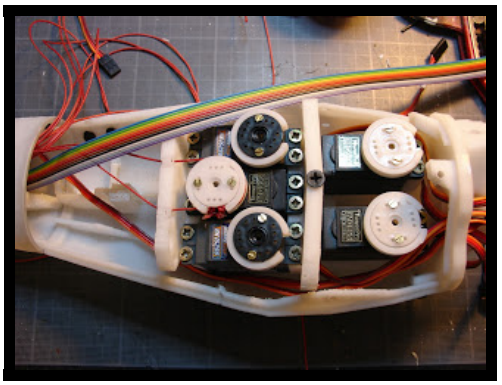


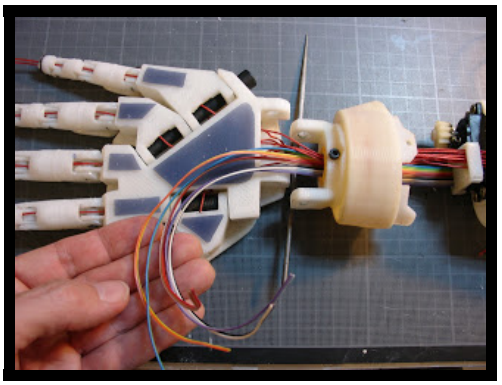
Lining and Tighting the tendons

Lining and tighting the tendons

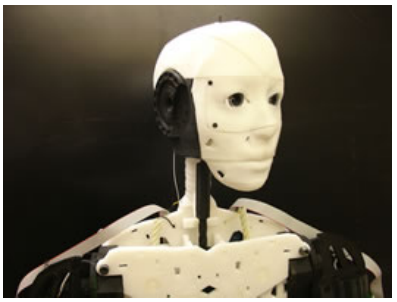
This is a little tuto to help you tighting up the tendons with the “SimpleServoBed”. In these pictures there is also a demonstration of how to line up the wiring for to add sensors on the tip of fingers.



Using a ed nappe will help you to distinguish wich sensor is connected to your Analog pins.



Seperate the wires by pairs. One pair per finger. You can see here in the wrist I’ve decided to have the wire nappe on the bottom of the wrist and the tendons (red braided fishing line) on the top. Make sure at all time not to twist/tangle tendons and wires somewhere during the lining to tip of fingers, other wise the fingers will never work correctly.



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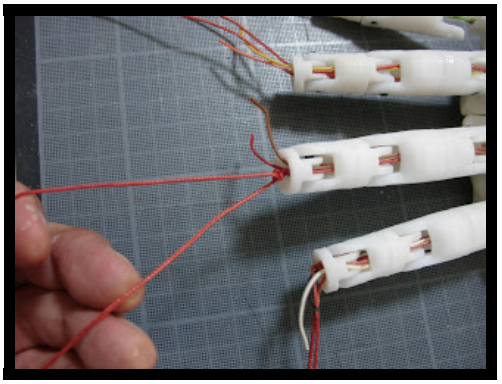
Dwayne Williams uploaded a new picture: opencv_fd_1.jpg
17 hours, 57 minutes ago

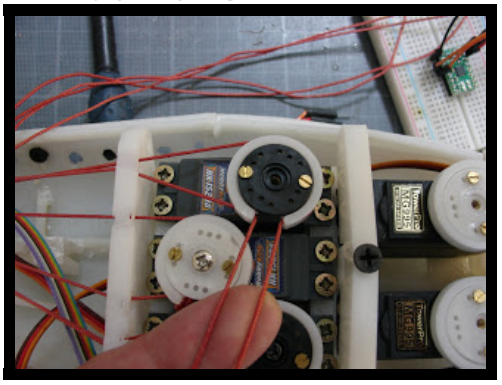
Rob is standing proud as a test bot for Grog.
He is very pleased to be a part of enhancing the Inmoov Nation.

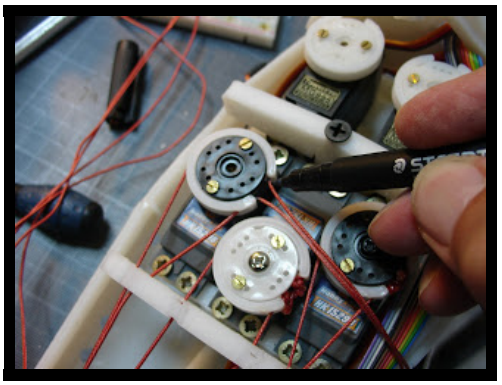
Fred uploaded a new picture: Possible spring for...
1 day, 16 hours ago

Maybe a possible spring for tendons ?

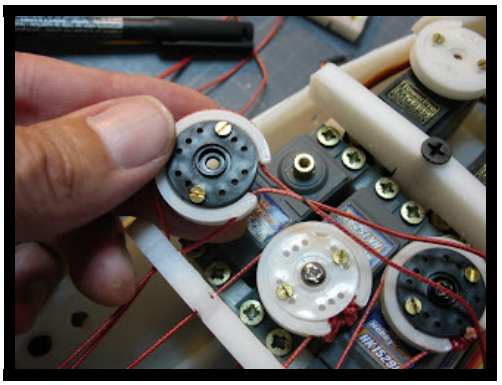


Now that the tendons and wires are lined up correctly from servo to finger tip, make three or four knots by the finger tip. Put a drop cyanocrylate glue on the knots to secure them.





Pull on the lining as much as you can. (without breaking something of course) Mark with a pen where the wire comes out of the wheel.



Now unmount the actuator wheel from servo to release the tendons. You can see my black marks on the fishing line.

Jack Phillips posted an update 2 days, 11 hours ago

Head Connect to Torso. Using EZ Robot for programing interface for now. Printing arms and hands next. Not sure how to post video so here is the link. https://www.youtube.com/watch?v=czMIEDz9804&feature=c4-overview&list=UUNwIfeOZc-u4UbOx3bcqJHQ

Gael Langevin posted an update 2 days, 16 hours ago

To Fred and others:

https://groups.google.com/group/inmoov/attach/151d3d256a4108f0/spring%20tensioner1.jpg?part=4&authuser=0

This is how I see a spring added to the retraction tendon. In this set up we avoid forcing on the servo either way of rotation and it also avoid losing tension in the tendons.

Fred uploaded a new picture: 69.jpg 3 days, 17 hours ago

Fred uploaded a new picture: 71.jpg 3 days, 17 hours ago

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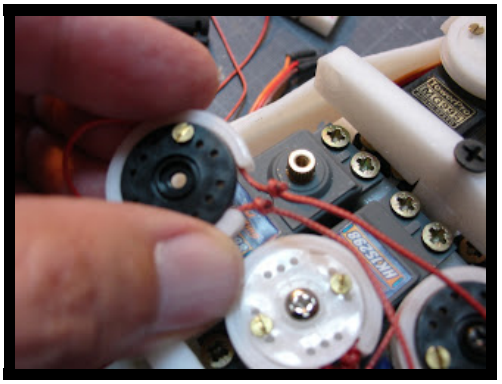
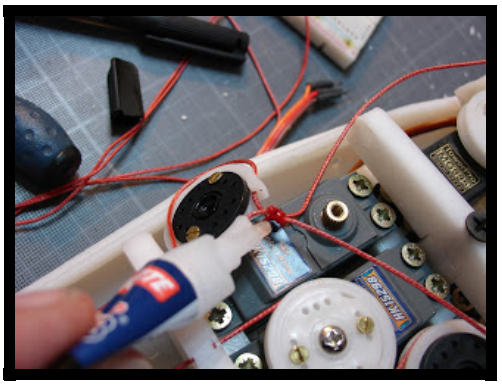
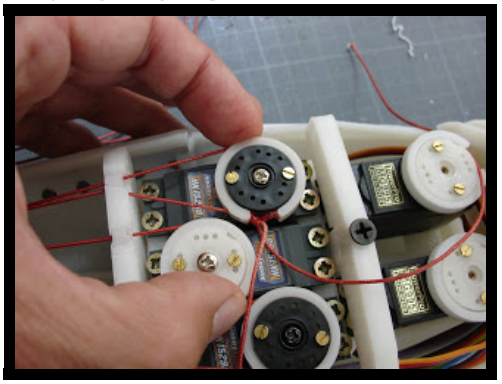


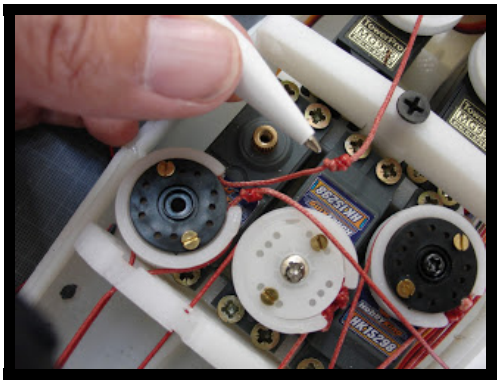
Make two knots on each mark points. This will reduce the length of fishing line between the tip of the finger and the actuator wheel. Normally it should be enough to give the correct tension for the tendons.



Secure the knots with a drop of Cyanocrylate glue.



Set back the actuator wheel on the servo respecting the intial degree position.



Let the lining set for a few hours or move the servo through the Arduino. Check if the tension is still correct. If ever it gets too loose add a knot between the first knots and the wheel.

New wiring design for the hand

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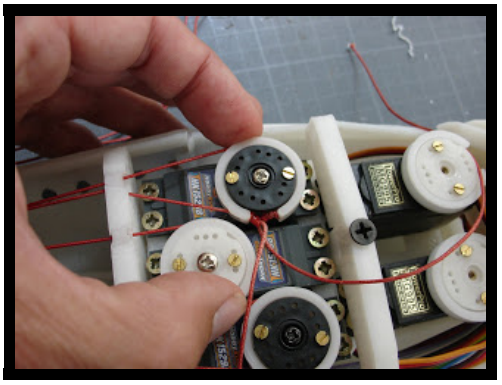

Set back the actuator wheel. Do the same for all the fingers. Later when you are sure the tension is correct for all fingers. Cut the remaining of the fishing braid after the knots.

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- Stun

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