Potential Resources and Inspiration for a Kwadropus Duster

Kristen Magas

This origami arm reminds me of something that inspired my students a couple of years ago.

Good video of the octopus soft robot https://www.youtube.com/watch?v=A7AFsk40NGE

Review of actuating methods for different soft robotic materials
https://onlinelibrary.wiley.com/doi/10.1002/aisy.202000128

Toy gripper https://www.amazon.com/4M-Octopus-Robotic-KidzLabs-Flexible/dp/B08V8XXM41/ref=sr_1_5?keywords=octopus%2Brobot&qid=1689891788&sr=8-5&th=1

Octopus gripper from Harvard https://seas.harvard.edu/news/2020/02/tentacle-bot

How to make soft robots:
Harvard toolkit https://softroboticstoolkit.com/
Wide variety of Instructables https://www.instructables.com/Soft-Robotics/
Modular exploration kit (not yet available for purchase, I think) https://www.geeky-gadgets.com/robot-design-kit-19-07-2023/

Additional, Less-useful Links
Cobot Gripper buying guide https://manplusmachines.com/best-cobot-gripper/

Comparison of different Arduinos and Raspberry Pis
https://www.researchgate.net/publication/366838621_Comparative_study_of_Arduino_Types_and_Raspberry_Pi_with_Programming_Languages

Untried Pi/Arduino connections:
https://www.tomshardware.com/how-to/use-raspberry-pi-with-arduino
https://www.woolseyworkshop.com/2020/02/05/controlling-an-arduino-from-a-raspberry-pi/
https://www.maketecheasier.com/program-arduino-with-raspberry-pi/

Good one for its research summary of existing space robots.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10255744/

Taikobot https://www.scmp.com/news/china/science/article/3215559/taikobot-chinas-flying-humanoid-robot-ready-ease-workload-astronauts-space-station

Northeastern moon snake https://news.northeastern.edu/2022/12/07/snake-robot-nasa-moon/