**Sensorized Glove**

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Problem: Current glove is lacking aspects that would be required to make this a fully functional prototype and there are many areas that need improvement.

Solution: Improve glove design, improve (organize) wiring harness, adjust/repair the use of FSR and FSR attachment to glove, incorporate resistor board into Arduino attachment to arm, enable wireless capabilities.

Brainstorming:

Force Sensors

* Force sensing resistor (FSR)
* 3 FSRs on each of the fingers and 2 on the thumb leaving 5 for the palm
* Tactile sensor
* Similar to a cut to size tactile sensor which would be flexible and cut close to the size of the glove
* Attachable re-attachable to the glove – allows for multiple sizes of gloves and reduces the issues with size and glove design
* Use industrial adhesive which is also flexible allowing for the FSR to read the values accurately while still adhering to the glove
* Add small pockets for each FSR to sit in

Glove

* 90% polyester and 10% spandex
* Spandex – strong, durable, stretchable, resistant to oils and some other fluids
* Vinyl material (PVC) used in disposable non latex gloves
* Black nitrile gloves
* Polyester/spandex – best choice when all aspects are factored, but find best percent combination
* Lycra is the best choice it’s a form of spandex with a softer and more flexible touch to its

Arduino

* Add Bluetooth chip/card for Bluetooth capabilities
* Get accurate readings from the accelerometer for positioning
* Get angles for hand positioning
* Simplify the circuit boards and solder proper connectors to Arduino