

## PAL (Pair-A-Legs)

What makes it move? Pneumatic pistons

Robot name: P.A.L (Pair-A-Legs)

What is the locomotive? Legs are the way this robot moves

What makes them operate? A wrist watch with options such as





- Program 1= Add Pressure
- Program 2= Release pressure
- Program 3 = Walk
- Program 4= Sit
- Program 5= Stand up
- Program 6 = Turn Left
- Program 7= Turn Right
- Program 8= Open crotch plate
- Program 9= crouch
- Program 10= Walk Backwards
- Program 11= Run
- Program 12= Stop
- Enter= Enter the program

What are the applications of this robot? To help people that are paraplegics to walk, as well as people that just don't have any legs. By using the controller strapped to your arm you can control the robot by pressing the program buttons listed above. It is very easy to take off, and just as easy to get into.

Sensors: The sensors that we have are feeling sensors so that the robot knows when to switch feet. I.R sensors above the legs so that they know when to move out of the way of objects. There is gyroscopes inside of each leg to keep balance.

To take off the set of legs there is another button on the wrist to release the pressure, this can also be used for people that are different sizes to fit more comfortably.

Actuators: There are six pneumatic pistons one for each joint.

<b>pair -a- legs</b>	<b>By: R.K.A Vote for us</b>	 <b>suction cup</b>	<b>Legend</b>
		 <b>circular hinges</b>	
		 <b>retractable cover</b>	
		 <b>pneumatic piston</b>	

