

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Kyle S.F. Boots	
Duciest Title	22619
Robotic Control: Wireless Control of a Robotic Claw using Bend Sensors	
Objectives/Goals Abstract	(1)
The purpose of this project is to create a bend sensor glove that can con	ntrol a robot over a long distance
Methods/Materials	
A Power Glove (with bend sensors in it), Wires and Shrink tubing for	re-wiring the power glove), Lego
into them), 2 motors, Lego bricks, Lego rods & gears, and tape.	buters with infra-red sensors buit
Results	
I was able to create this robot by using the two RCX bricks to commun infra-red messages. The messages were sent when the electrical resistant	1cate by sending and receiving from the gloves bend sensors
reached a certain level. These messages were converted to command, u	red to control the robot.
Conclusions/Discussion My invention could be expanded to create robots controlled from one lo	ocation, for use on the other side of
the world. A bend sensor glove controller, like the one I built, would be	e useful when rescue workers need
to search a collapsed building or when workers need to have sugget in se	ewers and other places that are not
$(\overline{a}, \overline{a})$	
Summary Statement	
To make a claw robot that can be controlled by a bend sensor glove, us	ing infra-red signals instead of
whes fullning between the two.	
Help Received	
Mom helped me buy needed materials. Dad taught me how to solder wi	ire connections.
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