

Project Proposal

Wirelessly Controlled Robotic Claw

The objective of this project is to build a wirelessly controlled robotic claw that can be controlled by flex sensors that will be put on the hand of the user. The User will be able to control the robotic claw by wearing the controller glove and perform hand gestures wirelessly.

For this project we are going to use two MSP 430 Microprocessors; One on the glove of the wearer and one on the Robotic Claw. The Controller Glove is fitted with Flex Resistors set up as a Voltage Divider.

The Voltage Divider Output goes into the MSP 430 Analog Input Pins converted to Digital, sent over the radio frequency Transmitter wirelessly over to the Receiver MSP 430 which sends the output as PWM Signals to the respective Servos thus enabling the user to control the robotic claw.

The List of Components are as follows:

1. Flex Resistors
2. Voltage Divider
3. MSP 430 Microcontrollers
4. RF Transmitter
5. RF Receiver
6. Servos for the Robot Claw
7. Power Supply

List of Members:

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