

## FABRICATION OF HAPTIC ROBOTIC ARM (WIRELESS)

### ABSTRACT:

The integration of medical science and engineering has made the task like complicated surgery by robotic arm simpler. To capture the motion of human limbs, sensors can be used. These units can be worn for video game character modeling, virtual reality, and activity recognition.

Flex sensor robotic arm deals with controlling a bionic/robotic arm . The system is basically a master-slave system wherein the master motion sensing glove sits on hosts arm sensing motions of the finger and then using this data to control the servos which control the finger movement of the slave bionic/robotic arm. And a 3-axis sensor or tilt sensor is used for the movement of the arm to move upwards and down.

### ADVANTAGES:

- Medical robotics is a growing field and regulatory approval has been granted for the use of robots in minimally invasive procedures.
- Robotic arms are being used in performing highly delicate, accurate surgery, or to allow a surgeon who is located remotely from their patient to perform a procedure using a robotic arm, controlled remotely.
- More recently, robotic arms can be used autonomously in surgery.

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