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### **ROBO-ARM REMOTE CONTROL INFORMATION SYSTEM**

***Annotation:** This article discusses principles of operation of modern automated systems. Methods of organizing automated monitoring systems. Construction of the functional algorithm of the project.*

***Keywords:** remote control, robotic technology, automated monitoring, automated systems.*

High technologies moving into the future are used in space, healthcare, manufacturing, public safety, defense, and many other industries. The manipulator penetrates high-tech industries and turns into established things, such as a TV or phone, that are consumed daily in our lives. Sooner or later, manipulators become irreplaceable human assistants, no one can doubt that a number of dangerous and difficult jobs are taken on [1, 2]. Compilers engineers and programmer manipulators are in demand now, and in the future will be even more in demand in modern society.

The theoretical foundations of the remote control system of the manipulator were studied, and a model of remote control of the robot's hands was developed.

Currently, robots are used in all spheres of human activity. They perform tasks that can be dangerous for people [3, 4]. For example, using robots without human intervention to work with explosives, access inaccessible places, study space bodies, and record data.

This project offers how much remote control of the manipulator changes a person's life, developed based on the Arduino controller. Thanks to this

controller, we were able to implement our work. In the scientific project, servos were used as the main server of the robot.

Manipulators work in various areas of people's lives. By 2025, the average annual growth rate of robotics is projected at 10.4%. They fly into space, explore distant planets, decontaminate explosives in the military sphere, and control the sky. We can say that the manipulator does not work in production without services [5, 6]. They will help you assemble car parts and create new types of medicines. Summing up the results of this work, we realized that in the future life, manipulators play a large role in human life. All this indicates the need to train specialists in various industries for robotics and mechatronics in all production sectors. As for the fact that we are one of the 50 developing cities, it is very important to adopt and master new technologies. Therefore, it is very important to treat everyone with a good side, without perceiving the development of technology [7, 8]. In Kazakhstan, every person in the field of robotics must work several times more than scientists in these countries, and work restlessly. Only then can the robotics industry in Kazakhstan achieve certain success and create factories that can create their own industrial manipulators and smart machines [9, 10]. Of course, we do not think that achieving this goal is very difficult, but unrealized. The most important thing is that we work with honor and achieve our goals.

The user interface can be developed as a mobile application using the MQTT Protocol [12, 14], or as a site using the site API to get data [13].

This technology can also be used to organize complex security systems [11], which will make it possible to monitor the object when it moves.

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