

ABSTRACT

The diploma project includes 72 pages, 7 major parts, 22 figures, 7 tables, 19 sources of applied literature, 2 annexes and 3 sheets of A1 format.

In the course of this diploma project, the actuators were selected for the designed four-lane anthropomorphic robot manipulator. The analysis of the relevant literature and the patent search are carried out. The design of the manipulator is developed in accordance with the laws of kinematics and dynamics, and also the drive is considered from the point of view of management. Created a manipulator control system using Solidworks graphics package and Matlab software with Simulink simulation package. The project provides for the possibility of rapid replacement of servo drives.

INDUSTRIAL ROBOT, MANIPULATOR, SERVO, MODELING,
CALCULATION, CINEMATICS, MATLAB, ARDUINO.

					ДП 6.050702.5114.034 БР			
<i>Змн.</i>	<i>Арк.</i>	<i>№ докум.</i>	<i>Підпис</i>	<i>Дата</i>				
<i>Розробив</i>		Колесніков Р.О.			Automated electromechanical system of mobile robot Abstract	<i>Лім.</i>	<i>Арк.</i>	<i>Аркушів</i>
<i>Керівник</i>		Красношапка Н.Д.					6	72
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