ANNOTATION

The subject of this thesis is: "Engineering design of lifting platforms and calculation of link strength". This work consists of the main part, and the calculation bases of life safety as well as the economic part.

The thesis provides information about lifting platforms and their mechanisms. The scheme of a cargo lifting platform weighing 300 kg was developed, as well as calculations were made for a more robust platform structure. The most stable support point has been identified. After kinematic calculations and satisfying the strength of the platform, which was made on the AutoCad program, we proceed to the development of the layout of this mechanism.

Using the Proteus program, we considered a simulation model of a remote-controlled lifting mechanism based on a Bluetooth module.

The section" Fundamentals of life safety " provides for environmental pollution during transportation of this mechanism. The requirements for working with this mechanism and calculation for contamination are considered.

In the economic part, economic efficiency and cost recovery were considered.