

SUMMARY

Master's diploma work contains pages - 134, figures - 62, tables - 7 and 49 references.

In this master's dissertation the research of modern systems of automation of parking systems, their classification, purpose and structure are carried out. The advantages and disadvantages of the most popular of them are identified, one system is chosen for more in-depth research.

A three-dimensional model of the research prototype was created for further production of the current model. The method of volume printing with plastic is used to make certain parts of the system.

A study of the modes of operation of the engines of the lifting and loading mechanism, oscillograms were taken. After conducting research, it was found that the use in control algorithms of the technique of artificial restriction of "dead zones" of regulation significantly facilitates the start of engines and improves the dynamics of the system as a whole.

DC MOTOR, PULSE WIDTH MODULATION, PARKING, CONTROL ALGORITHM RESEARCH, ANDROID, PROGRAMMING, DEAD ZONE, CAPACITY FILTER

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