THESIS REVIEWER'S REPORT

I. IDENTIFICATION DATA

Thesis title:	Automated warehouse
Author's name:	Berkehan Merden
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Automatic Control and Engineering Informatics
Thesis reviewer:	Ing. Mgr. Jakub Jura, Ph.D.
Reviewer's department:	Department of Automatic Control and Engineering Informatics

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	**ordinarily challenging**
How demanding was the assigned project?	

Please insert your comments here.

Fulfilment of assignment	**fulfilled with minor objections**
How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.	

1) Research about existing solutions … is not sufficient, especially is almost not done. Only one solution is described. And this description is very shallow and is much more PR than technical.
2) Design your own overall solution. Focus on the **control system**, logistics, efficiency, and cost.
Control part is mainly CTRL+C from any PLC website (and this part is very brief).

Methodology	**partially applicable**
Comment on the correctness of the approach and/or the solution methods.	

There are no special methodologies were used. But the procedure (research of known solutions, 3D conceptual design, detailed design) is in general correct. Problem is, that the solution was not tested (If it will work, or if it is possible to create it). Conventional means used in the design of mechanical construction are not used.

Technical level	**E - sufficient.**
Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?	

In general, there are no approaches, methodologies, or procedures from informatics and control engineering used. There are also many partial objections:
- You using the term "logistics" when you mean mechanical construction.
- Your "Operating software" is probably IDE. Or PLC user program?
- Fig. 10 – It is not probably the front view.
- In chapter 3.6 UML Diagram of Lifecycle of a Product and Figure 11, the "Simple UML diagram" is presented.
Unfortunately, UML consists of many diagrams and something like your diagram in UML doesn't exist.)

Formal and language level, scope of thesis	**E - sufficient.**
Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?	

The work is written in very poor English. Contains many grammatical errors on one side! The style of the text is rather

informal (How to Choose the Right PLC). All together reduces the intelligibility of the text.
The length of the textual part is at the lower limit (35 pages of the text with many figures from external sources (Fig 1,)).
For longer texts is better to use any sans serif font and align text to the block.
Fig 2 – the name of a variable (and its units) missing. Data shown in the diagram are prediction or somebody's fantasy?

Selection of sources, citation correctness	**D - satisfactory.**
Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?	
The list of references is relatively short, without standard format (numbers in the brackets []). Contains many less credible sources like web pages.	

Additional commentary and evaluation (optional)
Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.
Please insert your comments here.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

Summarize your opinion on the thesis and explain your final grading. Pose questions that should be answered during the presentation and defense of the student's work.

The work is oriented more to the field of mechanics than automation and computer science. Unfortunately, the student didn't use procedures commonly used in this branch. The design is finished in the conceptual design phase. It does not include other stages of development, such as detailed design, prototyping, testing, etc. There are only a few pages in the work from automation and informatics, mainly CTRL+C. The work contains many grammatical and technical errors.

The grade that I award for the thesis is E - sufficient.

Date: **27.8.2022**   Signature: