THESIS REVIEWER'S REPORT

I. IDENTIFICATION DATA

Thesis title:	Didactic tasks in the GRAFCET language for the virtual PLC (Programmable Logic Controller) in the FluidSIM® software
Author's name:	**Aydin Elbirlik**
Type of thesis :	master
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of instrumentation and control engineering
Thesis reviewer:	Ing. Filip Škeřík
Reviewer's department:	Festo spol. s r. o.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment — **challenging**

How demanding was the assigned project?

The difficulty of the assignment corresponds to the type of study.

Fulfilment of assignment — **fulfilled**

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.

The final work meets all the points of the assignment.

Methodology — **correct**

Comment on the correctness of the approach and/or the solution methods.

The student has chosen suitable and modern methods for solving the diploma thesis.

Technical level — **B - very good.**

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?

A very good example of the use of acquired knowledge in studies. Good work with used SW.

Formal and language level, scope of thesis — **B - very good.**

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 scope of the work corresponds to its complexity. The formal and language level of the work corresponds to university technical education.

Selection of sources, citation correctness — **A - excellent.**

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 student used very well available resources. All citations are in accordance with standards.

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.

All goals of the work were very well fulfilled. The student devoted a lot of time to the theoretical and practical part of the work and therefore the work is very high quality.

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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.

1) Do you know other graphical options for representing the sequence of operations than Grafcet?
2) It is better for you to use Grafcet or circuit diagram for the PLC program?

The grade that I award for the thesis is **A - excellent.**

Date: **16.2.2021**

Signature: Ing. Filip Škeřík

Digitally signed by Ing. Filip Škeřík
Date: 2021.02.16 22:27:00 +01'00'