

SUPERVISOR'S EVALUATION OF THE BACHELOR'S THESIS

Student: Stepanets Kyrylo

Supervisor: Ing. Václav Mach, Ph.D.

Study program: Applied Informatics in Industrial Automation

Specialization: Intelligent Systems with Robots

Academic year: 2024/2025

Bachelor's Thesis topic: Design and Development of a Low-Cost Obstacle-Avoiding Robot Car Using Arduino

Evaluation:

	A	B	C	D	E	F
	Evaluation: A – Best; F – Unsatisfactory					
1. Fulfilment of all points of the assignment	☐	☒	☐	☐	☐	☐
2. Suitability of chosen resolution methods	☐	☐	☒	☐	☐	☐
3. Division of work (chapters, subchapters, paragraphs)	☐	☒	☐	☐	☐	☐
4. Working with literature and citations	☐	☐	☒	☐	☐	☐
5. Level of linguistic elaboration	☐	☐	☒	☐	☐	☐
6. Formal level of work	☐	☒	☐	☐	☐	☐
7. Theoretical part elaboration quality	☐	☐	☒	☐	☐	☐
8. Practical part elaboration quality	☐	☒	☐	☐	☐	☐
9. Achieved results of the work	☐	☐	☐	☒	☐	☐
10. Contribution of the thesis and its exploitation	☐	☐	☒	☐	☐	☐
11. Cooperation of thesis author with the supervisor	☐	☒	☐	☐	☐	☐

Result of the plagiarism test:

The work was assessed in terms of plagiarism with the result 3% identity. Work is not plagiarism.

Overall evaluation of the thesis:

The resulting mark is not the average of all of the abovementioned evaluations. The mark is awarded by the thesis supervisor according to their deliberations and the ECTS classification scale:

A – Excellent, B – Very good, C – Good, D – Satisfactory, E – Sufficient, F – Insufficient.

Grade F also means "I do not recommend this thesis for defence."

I recommend this diploma thesis for its defence and suggest the following evaluation:

C - Good.

In the case of an "F – Insufficient" grade, provide comments and the shortages of the thesis and the reasons for this assessment.

The presented bachelor's thesis deals with the design and implementation of an autonomous vehicle that can avoid obstacles using ultrasonic sensors. The result of the work is a functional vehicle on the Arduino platform that can move in a given space without collision. The proposed system contains only a basic autonomous control system and is not able to move to a specified location. In conclusion, it can be stated that all points of the assignment were met and I recommend the thesis for defense.

Date: 2.6.2025

Thesis Supervisor's Signature: