

SUPERVISOR'S EVALUATION OF THE BACHELOR'S THESIS

Student: Asadullah Tariq

Supervisor: Ing. Petr Chalupa, Ph.D.

Study program: Applied Informatics in Industrial Automation

Specialization: Intelligent Systems with Robots

Academic year: 2024/2025

Bachelor's Thesis topic: Development and Optimization of an FPV Freestyle Drone for Aerial Manoeuvres

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 6 % 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 topic of this thesis was highly challenging and ambitious for a bachelor's level project, as the drone was developed entirely from scratch. No pre-designed drone kit was used; instead, the student was responsible for selecting and integrating all hardware components and choosing an appropriate control system.

Due to time constraints in the final phase of the project, the practical implementation was not elaborated in greater detail. The key sections (Chapters 5 to 7) are covered in only eight pages, and the flight test videos included in the appendix demonstrate only basic operations. Furthermore, the video transmission from the drone's onboard camera to the FPV goggles is not shown in the provided videos.

Date: 29.5.2025

Thesis Supervisor's Signature: