THESIS SUPERVISOR'S REPORT

I. IDENTIFICATION DATA

Thesis title:	**Metody zpracování obrazu pro dlouhodobou T&R navigaci mobilních robotů**
Author's name:	**Pavel Linder**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Cybernetics
Thesis reviewer:	George Broughton
Reviewer's department:	Department of Computer Science

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging

How demanding was the assigned project?

The project involved the use of image features in a robotics framework, and integrating several neural networks. The implementation of the neural networks involved the training and usage. As a result there was a reasonably varied number of topics for the student to work with and become proficient.

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 goals of the project were to investigate methods which have the potential to improve a particular form of robot navigation, and specifically see how they improve the robustness of the method. I feel this task, and the guidelines laid out in the proposal, have been fulfilled.

Activity and independence when creating final thesis	A - excellent.

Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.

The student met all the time limits and deadlines imposed, had a positive approach to the work, and performed the work independently.

Technical level	A - excellent.

Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?

The technical level is sufficient and technically sound. Perhaps some sections could be explained slightly clearer, but otherwise on the whole, I think it is good.

Formal level and language level, scope of thesis	A - excellent.

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 English used is satisfactory, with correct use of formalisms, The formatting and organisation is fine also.

Selection of sources, citation correctness
<div style="float:right">B - very good.</div>

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?

Generally the discussion on related work is good. There are a few cited works I would have preferred to see discussed in more detail however.

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.

I was impressed with the student's ability to maintain deadlines, while being asked to move residence due to the ongoing pandemic.

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.

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

Date: **2.6.2021**

Signature: